Water Resources Data
Florida
Water Year 1984

ORIGINAL

Volume 3A. Southwest Florida Surface Water

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-84-3A
Prepared in cooperation with the State of Florida
and with other agencies

CALENDAR FOR WATER YEAR 1984

1983

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U.S. DEPARTMENT OF THE INTERIOR

March 3 1849

Water Resources Data Florida Water Year 1984

Volume 3A. Southwest Florida Surface Water

by R.T. Mycyk, L.D. Fayard, W.L. Fletcher, and J.K. Ogle

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-84-3A
Prepared in cooperation with the State of Florida
and with other agencies

I

UNITED STATES DEPARTMENT OF THE INTERIOR

Donald Paul Hodel, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

Prepared in cooperation with the
State of Florida
and with other agencies as listed
under cooperation

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227 North Bronough Street, Suite 3015
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1986

WATER RESOURCES DATA FOR FLORIDA, 1984
Volume 3A: Southwest Florida

PREFACE

The volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes.

Volume 1.	Northeast Florida
Volume 2.	South Florida
Volume 3.	Southwest Florida
Volume 4.	Northwest Florida

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Florida and with other agencies under the general supervision of I. H. Kantrowitz, District Chief, Florida.

50272-101

REPORT DOCUMENTATION PAGE	**1. REPORT NO.** USGS/WRD/HD-86/207	**2.**	**3. Recipient's Accession No.**

4. Title and Subtitle
Water Resources Data for Florida, Water Year 1984
Volume 3A: Southwest Florida - Surface Water

5. Report Date
January 1986

6.

7. Author(s)
R. T. Mycyk, L. D. Fayard, W. L. Fletcher, and J. K. Ogle

8. Performing Organization Rept. No.
USGS-WRD-FL-84-3A

9. Performing Organization Name and Address
U. S. Geological Survey
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4710 Eisenhower Blvd., Suite B-5
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10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address
U. S. Geological Survey
Water Resources Division
227 North Bronough Street, Suite 3015
Tallahassee, FL 32301

13. Type of Report & Period Covered
Annual - Oct 1, 1983 to Sept 30, 1984

14.

15. Supplementary Notes

Prepared in cooperation with the state of Florida and other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1984 water year in Florida consist of continuous or daily discharge for 251 streams, periodic discharge for 32 streams, miscellaneous discharge for 43 streams, continuous or daily stage for 92 streams, periodic stage for 31 streams, peak discharge for 60 streams and peak stage for 37 streams; continuous or daily elevations for 73 lakes, periodic elevations for 82 lakes; continuous ground-water levels for 467 wells, periodic ground-water levels for 539 wells, and miscellaneous water-level measurements for 2,039 wells; quality-of-water data for 200 surface-water sites and 596 wells.

The data for southwest Florida include continuous or daily discharge for 81 streams, periodic discharge for 15 streams, miscellaneous discharge for 14 streams, peak discharge for 20 streams, continuous or daily stage for 31 streams, continuous elevations for 30 lakes and periodic elevations for 43 lakes; continuous ground-water levels for 231 wells, periodic ground-water levels for 199 wells, and miscellaneous water-level measurements for 799 wells; quality of water for 117 surface-water sites and 289 wells.

These data represent the National Water Data System records collected by the U. S. Geological Survey and cooperating local, state and federal agencies in Florida.

17. Document Analysis a. Descriptors

*Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow rate, Gaging Stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement No restriction on distribution. This report may be purchased from: National Technical Information Center, Springfield, VA 22161	**19. Security Class (This Report)** UNCLASSIFIED	**21. No. of Pages** 411
	20. Security Class (This Page) UNCLASSIFIED	**22. Price**

(See ANSI-Z39.18) See Instructions on Reverse OPTIONAL FORM 272 (4-77) (Formerly NTIS-35)

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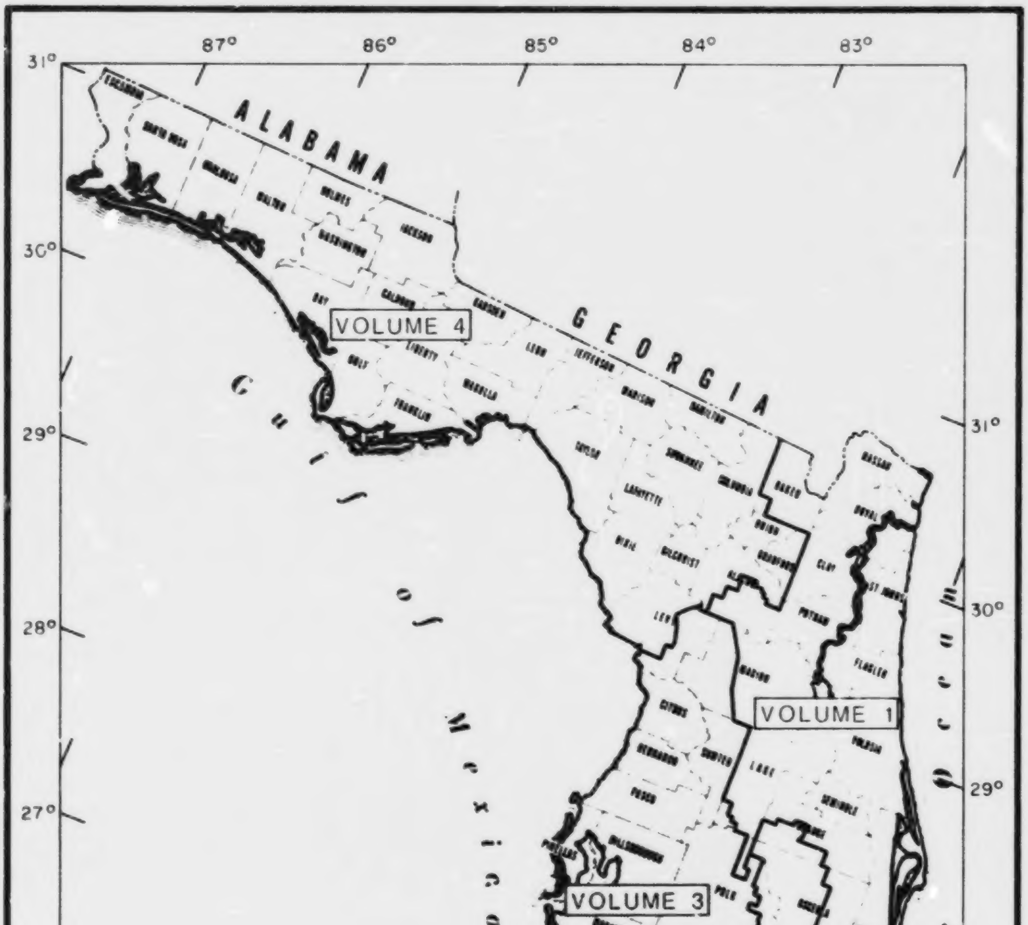

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Volume 3A: Southwest Florida

STREAM AND LAKE GAGING STATIONS IN DOWNSTREAM ORDER FOR WHICH DATA ARE INCLUDED IN THIS REPORT

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WATER RESOURCES DATA FOR FLORIDA, 1984
Volume 3A: Southwest Florida

INTRODUCTION

Water resources data for the 1984 water year for southwest Florida consist of records of stage, discharge, and water quality of streams; elevation and water quality of lakes and reservoirs; and discharge and water quality of springs. Records of water levels and water quality of wells are in Volume 3B. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating state and federal agencies in Florida.

Records of discharge and stage of streams, and contents (or elevations) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a state-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a state-boundary basis. These official Survey reports carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-84-3A." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (904) 681-7620.

COOPERATION

The systematic collection of water resources data in the State of Florida by the U.S. Geological Survey began in 1930 and has been continued in cooperation with local, state, and federal agencies. The data for this report were collected as part of a cooperative program with the following agencies:

Florida Department of Environmental Regulation
Florida Department of Transportation
Englewood Water District
Southwest Florida Water Management District
West Coast Regional Water Supply Authority
County of Hillsborough
County of Manatee
County of Pinellas
County of Sarasota
County of Sumter
City of Bradenton
City of Clearwater
City of Plant City
City of Sarasota
City of Tampa
Corps of Engineers, U.S. Army

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to the International System of units (SI), on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Altitude is a value given a gaging station or a ground-water well, for which the elevation of the gage datum has not been determined by leveling from a bench mark. The approximate elevation of the gage was then obtained by barometric observation or from topographic map.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, trapped by the well. A flowing artesian well is one in which level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, non-spore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal are bacteria found also in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bactereia.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic meter), and periphyton and benthic organisms in g/m^2 (grams per square meter).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Organic weight or volatile weight of the living substance is the difference between the dry weight and the ash weight, and represents the actual weight of the living matter. The organic weight is expressed in the same units as for ash and dry weights.

Wet weight is the weight of living matter plus contained water.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or approximately 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural-water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s or cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Detergents (methylene blue active substance, MBAS). Anionic surfactants in detergents resist chemical oxidation and biological breakdown. Soap is an example of this class and the synthetic members are sodium salts of organic sulfonates or sulfates (Rose, 1966). Their persistence in water over long periods of time contributes to pollution of both ground water and surface water. Some of the effects produced from detergent pollution are unpleasant taste, odor, and foaming (Wayman, and others, 1962). Although the physiological implications of MBAS to human beings is unknown, prolonged ingestion of this material by rats is believed to be nontoxic (Paynter, 1960). The U.S. Public Health Service (1962) recommends that MBAS should not exceed 0.5 mg/L in drinking and culinary waters.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45 ug membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hydrologic unit is a geographic area representing part of all of a surface drainage basin or district hydrologic feature as delineated by the Office of Water Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum is a datum that approximates land surface at each well.

Micrograms per liter (ug/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/L) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Concentration of suspended sediment can also be exposed in mg/L based on the mass of sediment per liter of sample.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum arrived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Organism count/area refers to the number or organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p.24). The United States annually produces about one billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per 100 mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per 100 mL of sample.

A picocuri (pCi) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegrations per minute.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having an atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Runoff in inches (IN.) shows the depth of which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Sediment discharge is the rate at which suspended sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may even vary in the same source with changes in the composition of the water (Durfor and Becker, 1964, p. 27-29).

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff," as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for stages when the various maps were made.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 ug membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required for all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determination of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 ug membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is a thermometer that continuously and automatically records on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected forms of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample).

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total organic carbon (TOC) is a measure of the organically related carbonaceous content of water. It includes all natural and man-made organic compounds which are combustable at a temperature of 950°C.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends. Thus, the water year beginning October 1, 1970 and ending September 30, 1971 is called the "1971 water year."

WDR is used as an abbreviation for "Water-Data Reports" published since 1975, in the REVISIONS paragraph to refer to previously published state annual basic-data reports.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published state annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

The National Stream Quality Accounting Network (NASQAN) has been designed to meet many of the information demands of agencies or groups involved in planning and management on a national or regional scale. These agencies include the Water Resources Council, Council on Environmental Quality, Environmental Protection Agency, and interstate or State-Federal units, such as river-basin commissions or river-compact commissions.

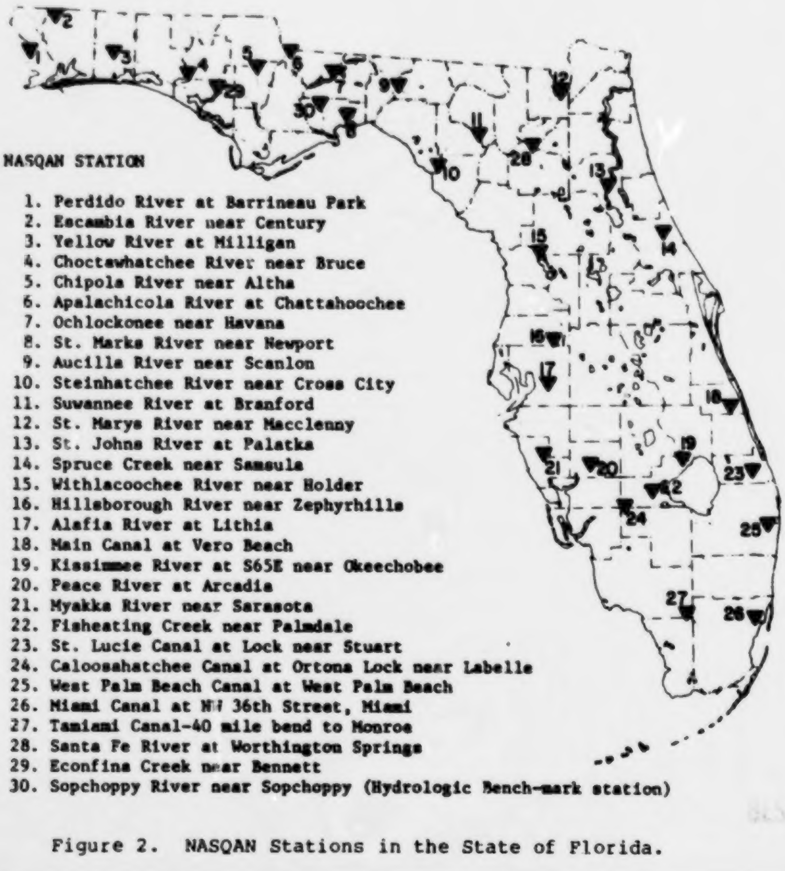
The primary objectives of the accounting network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality. In implementing the network, one or more stations in each river-basin unit are selected so as to sample a major part of the surface-water discharge from the unit. The NASQAN stations in Florida are shown in figure 2.

Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Temperature, specific conductance, the major inorganic constituents, sediment, organic and minor inorganic constituents, bacterial content, and other biological parameters are measured periodically to provide information on their range, diversity, and variability. The ability of the stream to support biological life is assessed by periodic observations of the lower forms of aquatic plants and animals. Information obtained from the accounting network stations will provide a broad base of water-quality data on streams throughout the nation.

Pesticide program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.



▼$_3$ NASQAN STATION

1. Perdido River at Barrineau Park
2. Escambia River near Century
3. Yellow River at Milligan
4. Choctawhatchee River near Bruce
5. Chipola River near Altha
6. Apalachicola River at Chattahoochee
7. Ochlockonee near Havana
8. St. Marks River near Newport
9. Aucilla River near Scanlon
10. Steinhatchee River near Cross City
11. Suwannee River at Branford
12. St. Marys River near Macclenny
13. St. Johns River at Palatka
14. Spruce Creek near Samsula
15. Withlacoochee River near Holder
16. Hillsborough River near Zephyrhills
17. Alafia River at Lithia
18. Main Canal at Vero Beach
19. Kissimmee River at S65E near Okeechobee
20. Peace River at Arcadia
21. Myakka River near Sarasota
22. Fisheating Creek near Palmdale
23. St. Lucie Canal at Lock near Stuart
24. Caloosahatchee Canal at Ortona Lock near Labelle
25. West Palm Beach Canal at West Palm Beach
26. Miami Canal at NW 36th Street, Miami
27. Tamiami Canal-40 mile bend to Monroe
28. Santa Fe River at Worthington Springs
29. Econfina Creek near Bennett
30. Sopchoppy River near Sopchoppy (Hydrologic Bench-mark station)

Figure 2. NASQAN Stations in the State of Florida.

STATION IDENTIFICATION

Downstream order and station number

Surface water stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report, the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 02335500, which appears just to the left of the station name includes the 2-digit part number "02" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

Numbering system for miscellaneous sites

Downstream order station numbers are not assigned to miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes and seconds of longitude, and the last 2 digits are a sequential number for sites within a 1-second grid. In the event that the latitude-longitude coordinates for two sites are the same, sequential numbers "01," "02," are assigned to give each site a unique number. See figure below.

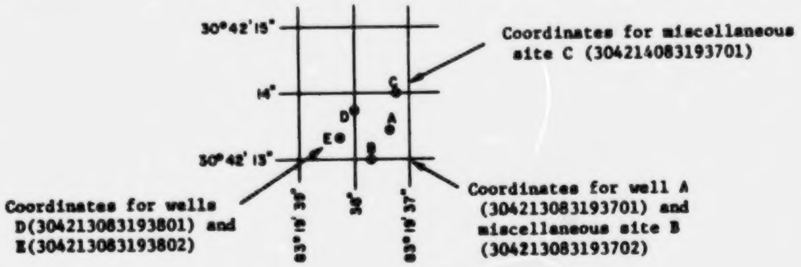

30°42'15"
14"
30°42'13"
83°19'39"
38"
83°19'37"
A
B
C
D
E
Coordinates for miscellaneous site C (304214083193701)
Coordinates for wells D(304213083193801) and E(304213083193802)
Coordinates for well A (304213083193701) and miscellaneous site B (304213083193702)

Figure 3. System for numbering wells and miscellaneous sites. (latitude and longitude)

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted opening measurements, computations of flow over dams or weirs), step backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in determining discharge.

At some stations there is no relation between stage and discharge because of the flat stream gradients and/or tidal fluctuations. Discharge is determined from ratings which are based on a relation between recorded deflection (velocity index unit) at a fixed point and mean velocity at a fixed measuring section, and a relation between recorded stage and cross-sectional area at the measuring site.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 3.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations, peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharge is not published for any canals, ditches, drains, or for any stream for which peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following EXTREMES, for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations.

Accuracy of field data and computed results

The accuracy of discharge data depends primarily on (1) the stability of the stage discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments of losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

The descriptive heading for water-quality records at surface water stations where parameters are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.) gives the period of record for the daily water-quality parameters; extremes for the period of record, extremes for the current year; and general remarks. The chemical analyses of samples collected at these sites are given immediately following the daily records.

For data collected at miscellaneous surface-water sites and ground-water sites, no descriptive statements are given, however, the site number, date of sampling and other pertinent data are given in the table of chemical analyses.

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U. S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available. The values reported represent water-quality conditions, at the time of sampling, consistent with available sampling techniques and methods of analysis.

For stations equipped with water-quality monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. For daily sampled stations, the water temperatures are taken at about the same time each day to minimize the effect of diurnal variations. Most large streams have small diurnal variations in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. The thermometers used for determining the water temperature are accurate to plus or minus 0.5°C.

At stations where temperature recorders are located, the records consist of maximum and minimum temperatures for each day and the monthly average of maximum and minimum daily temperatures.

Sediment

Suspended sediment samples were collected bimonthly at stations in the Hydrologic Benchmark Network and National Stream Quality Accounting Network with depth-integrating samplers. Depth integrated samples were collected at three or more verticals in the cross section to determine variations in the cross section and to more accurately determine suspended sediment loads. Daily sediment loads in tons per day are reported for day on which samples were collected.

Mineral constituents in solution

All natural waters contain dissolved mineral matter. The quantity of dissolved mineral matter in natural water depends primarily on the type of rocks or soils with which the water has been in contact and the length of time of contact. Ground water is generally more highly mineralized than surface runoff because it remains in contact with the rocks and soils for much longer periods. Many streams are fed by both surface runoff and ground water from seepage or direct spring inflow. Such streams reflect the character of the more mineralized ground water during dry periods and are diluted by surface runoff during wet periods.

The mineral constituents and physical properties of waters reported in this report include those that have a practical bearing on water use. The results of analyses generally include silica, iron, calcium, magnesium, sodium, potassium, carbonate, bicarbonate, sulfate, chloride, fluoride, nitrate, pH, dissolved solids, and specific conductance. Aluminum, manganese, color, dissolved oxygen, and other dissolved constituents and physical properties are reported for certain streams. Microbiologic and organic components (pesticides, total organic carbon) and minor elements (arsenic, cobalt, cadmium, copper, lead, mercury, nickel, strontium, zinc, etc.) are determined occasionally for some streams in connection with specific studies and the results are reported.

Qualifying-Remarks Codes

The following remarks codes may appear with the data.

E	Estimated value
<	Actual value is known to be less than the value shown
>	Actual value is known to be greater than the value shown
M	Presence of material verified but not quantified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected
K	Results based on colony count outside the acceptance range (non-ideal colony count)

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

SUMMARY OF HYDROLOGIC CONDITIONS

Rainfall during the 1984 water year in west-central Florida varied from seven inches above to six inches below normal for the period October to September. The rainfall varied from five inches to three inches below normal from October to May. Rainfall during the summer was light and scattered causing the months of June, July, August, and September to be about five inches below normal. Total rainfall for the year averaged about one inch below normal. Total rainfall for the year was twelve inches below normal to normal at St. Petersburg, Tampa, Inverness, Bushnell, and Lakeland, and two to five inches above normal at Brooksville, Punta Gorda, and Arcadia.

Streamflow during the 1984 water year ranged from slightly below to just above the monthly mean discharge. In the Hillsborough River basin, flow was at the monthly mean discharge from October to December. Moderate rain in late December and showers from January to April caused the flow to remain well above the monthly mean discharge. Light rain showers in May and June caused the flow to recede to the monthly mean discharge. Moderate rain showers in July and August caused the flow to rise well above the monthly mean discharge but by the end of September the flow had receded back to the monthly mean discharge. For the Peace River basin, streamflow was slightly above the monthly mean discharge and remained there to the end of December. Moderate rain in late December and showers from January to March caused the flow to remain above the monthly mean discharge, but receded to slightly below the monthly mean discharge by the end of May. Light showers in June, July, and August caused the flow to rise just above the monthly mean discharge, but by the end of September the flow receded to just below the monthly mean discharge.

Streamflow in the Withlacoochee River near Trilby and Withlachoochee River near Holder remained at the monthly mean discharge from October to December. Moderate rain in late December and light rain showers caused the flow to remain well above the monthly mean discharge from January through July, but receded back to the monthly mean discharge in August and September.

Lake elevations were slightly above the average for the entire water year. Water levels for Lake Howard in the upper Peace River basin were slightly above the average from October to December but rose well above the month end elevation from January to March. The water level declined in April and remained slightly above the month end elevation through September. Lake Carroll in the Hillsborough River basin was at the month end elevation average from October to December and rose slightly above the month end elevation in January and remained there through September.

Ground-water levels in the Floridan and surficial aquifers were above average water levels for the water year. Floridan aquifer water levels in De Soto, Hillsborough, Hardee, Hernando, Pasco, and Polk Counties remained above the average water levels from October to May. The summer showers were light causing the water levels to decline to the average water level by the end of September.

The mean annual flow in Weeki Wachee Springs in Hernando County and Rainbow Springs in Marion County, was about 20 percent higher than the long-term averages. The mean annual flow in Lithia Springs in Hillsborough County was eight percent higher than the long-term average.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

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STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

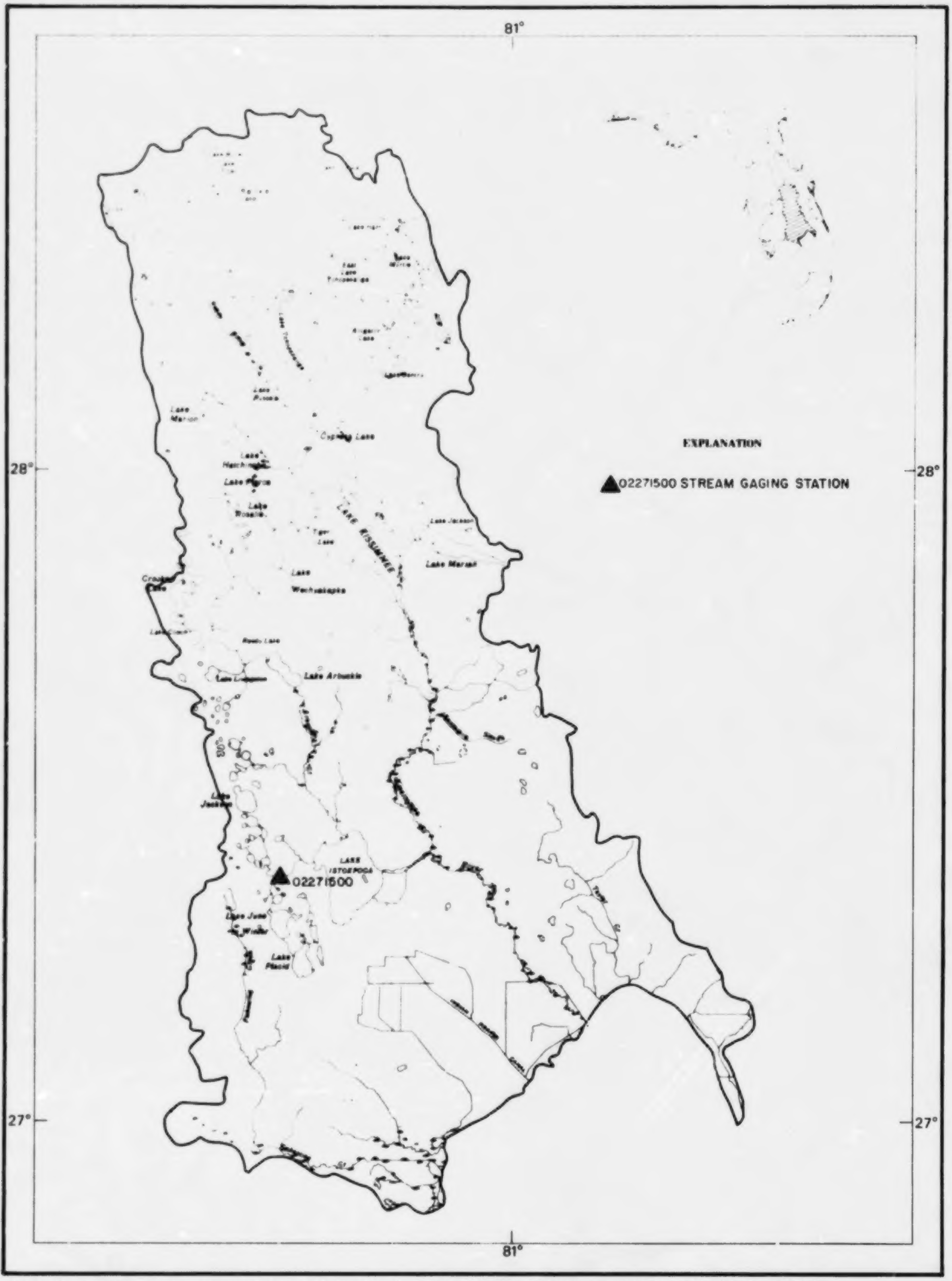

Figure 4. Location of stream gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to the Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°22'26", long 81°23'37", in SW$\frac{1}{4}$ sec.2, T.36 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on left bank, 320 ft downstream from bridge on State Highway 17, 1.0 mi downstream from Jack Creek, 4.0 mi south of De Soto City, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--109 mi^2, includes area drained by Lake Sebring.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to September 1975; October 1978 to current year.

REVISED RECORDS.--WSP 1384; Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.99 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to May 21, 1952, at site 0.5 mi upstream at datum 0.89 ft higher.

REMARKS.--Records fair. Some regulation by gate manipulations at structure G-90 located on Lake June-in-Winter outflow canal.

AVERAGE DISCHARGE.--35 years (water years 1947-75, 1979-84), 82.9 ft^3/s, 10.33 in/yr, 60,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft^3/s Sept. 23, 1948, gage height, 11.56 ft former site and datum; minimum, 0.30 ft^3/s May 22, 1956, affected by pumpage; minimum gage height, 1.49 ft Apr. 8, 1956, affected by pumpage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 194 ft^3/s Mar. 14, 15, gage height, 5.81 ft; minimum, 9.1 ft^3/s May 22, gage height, 2.69 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	24	48	26	66	58	33	64	91	148	38
2	28	19	24	46	23	57	56	31	56	89	149	36
3	29	19	24	44	23	53	54	29	52	88	150	39
4	27	18	25	42	24	50	60	27	48	101	148	37
5	26	18	25	41	24	47	71	25	44	99	128	52
6	24	19	25	39	23	46	64	25	41	102	115	56
7	24	20	28	36	21	51	57	24	47	110	108	53
8	23	31	25	35	18	49	52	23	53	111	100	46
9	23	35	22	35	16	43	54	23	51	116	92	43
10	22	33	21	34	16	39	61	22	48	111	84	39
11	21	31	21	37	16	35	56	20	46	108	78	35
12	21	29	38	35	17	67	52	18	44	104	72	32
13	33	27	46	32	18	165	51	17	43	99	66	29
14	40	25	42	31	30	194	55	17	41	106	60	28
15	42	23	47	30	33	189	75	16	47	108	55	26
16	42	23	49	29	30	183	77	15	47	100	50	24
17	40	21	47	29	28	181	68	14	46	93	45	24
18	39	19	47	31	26	174	63	12	47	91	41	23
19	38	19	45	31	24	163	58	12	51	90	50	22
20	35	20	43	32	24	156	55	11	57	104	45	23
21	32	26	42	34	23	149	52	10	57	120	40	23
22	31	27	40	31	24	139	52	9.6	60	140	44	23
23	30	25	40	30	43	147	55	14	79	158	43	21
24	31	25	41	30	50	153	52	25	100	163	46	19
25	31	26	37	31	50	148	47	50	105	170	46	18
26	27	23	30	30	49	141	43	61	103	167	43	15
27	24	22	26	33	44	135	41	63	98	152	40	18
28	22	23	25	35	56	128	39	65	93	149	36	52
29	20	25	30	33	74	99	37	67	87	144	35	52
30	20	24	48	30	---	73	35	76	93	141	32	51
31	20	---	51	28	---	63	---	72	---	140	37	---
TOTAL	894	714	1078	1062	873	3383	1650	926.6	1848	3665	2226	997
MEAN	28.8	23.8	34.8	34.3	30.1	109	55.0	29.9	61.6	118	71.8	33.2
MAX	42	35	51	48	74	194	77	76	105	170	150	56
MIN	20	18	21	28	16	35	35	9.6	41	88	32	15
CFSM	.26	.22	.32	.32	.28	1.00	.51	.27	.57	1.08	.66	.31
IN.	.31	.24	.37	.36	.30	1.15	.56	.32	.63	1.25	.76	.34
AC-FT	1770	1420	2140	2110	1730	6710	3270	1840	3670	7270	4420	1980

CAL YR 1983 TOTAL 26337.0 MEAN 72.2 MAX 331 MIN 14 CFSM .66 IN 8.99 AC-FT 52240
WTR YR 1984 TOTAL 19316.6 MEAN 52.8 MAX 194 MIN 9.6 CFSM .48 IN 6.59 AC-FT 38310

NOTE.--No gage height record July 14 to Aug. 21.

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-71, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT 18...	1045	3.44	40	128	112	8.1	6.7	26.0	50	6.0
NOV 03...	1045	2.84	19	135	--	6.4	--	23.5	--	6.6
JAN 12...	1605	3.40	32	118	--	6.1	--	16.5	--	8.9
MAR 06...	1715	3.82	46	111	--	5.9	--	23.5	--	7.1
MAY 09...	1345	3.13	22	130	--	6.2	--	26.0	--	4.4
22...	0920	2.71	16	168	157	6.2	6.6	26.0	20	4.4
JUL 11...	0945	4.99	109	105	--	6.0	--	28.0	--	3.6
SEP 13...	1130	3.40	29	108	--	5.8	--	26.0	--	3.3

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 18...	7.8	3.7	6.1	1.5	22	10	.10	5.0	89
MAY 22...	13	6.0	5.8	2.1	33	11	.10	7.3	108

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 18...	--	--	--	--	--	--	300	11	9.0
NOV 03...	--	--	--	--	--	--	--	--	--
JAN 12...	.010	.27	.060	.46	.070	.050	--	--	--
MAR 06...	.010	.15	.040	.59	.080	.040	--	--	--
MAY 09...	<.010	.24	.070	.60	.040	.020	--	--	--
22...	--	--	--	--	--	--	560	8.6	21
JUL 11...	.010	.08	.040	.82	.050	.030	--	--	--
SEP 13...	.010	.26	.060	.63	.060	.040	--	--	--

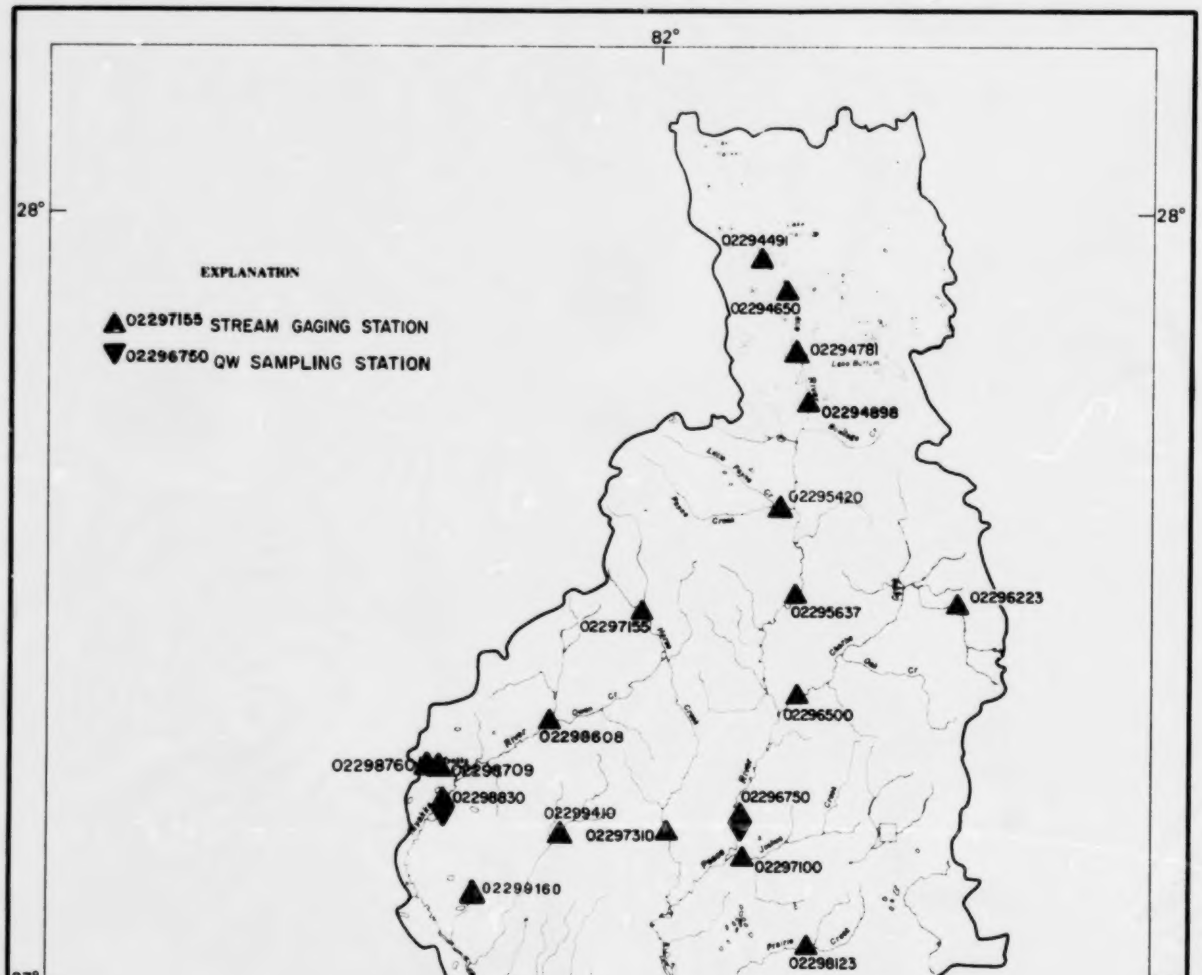

Figure 5. Location of stream gaging stations in the Peace and Myakka River basins, Charlotte Harbor and coastal area.

PEACE RIVER BASIN

02294491 SADDLE CREEK AT STRUCTURE P-11 NEAR BARTOW, FL

LOCATION.--Lat 27°56'17", long 81°51'05", in SW¼ sec.19, T.29 S., R.25 E., Polk County, Hydrologic Unit 03100101, near right bank, 65 ft downstream from structure P-11, 0.7 mi south of Lake Hancock, 2.3 mi upstream from mouth, and 3.0 mi north of post office in Bartow.

DRAINAGE AREA.--135 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 84.08 ft National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District reference mark). Prior to Aug. 15, 1968, at same site at datum 10.00 ft higher.

REMARKS.--Records fair. Flow regulated by structure P-11.

AVERAGE DISCHARGE.--20 years (water years 1965-84), 59.4 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 516 ft^3/s Aug. 13, 14, 1965; maximum gage height, 15.66 ft, present datum, Aug. 13, 1965 (wind affected); no flow for many days in some years; channel dry at gage May 7-23, 1968, many days 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 413 ft^3/s Dec. 31, gage height, 13.39 ft; no flow for many days; minimum gage height, 9.98 ft May 29, 30 (estimated).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.76	2.6	406	.52	238	74	18	87	74	54	4.4
2	.03	2.3	2.3	399	1.4	234	46	20	178	75	54	3.3
3	.03	1.4	2.0	392	.40	231	62	7.0	177	76	54	3.5
4	.04	.97	2.0	386	.35	229	79	.11	173	77	54	2.9
5	.04	.83	2.2	379	.28	223	85	.09	169	77	55	3.7
6	.04	.78	2.5	374	.25	137	82	.07	164	96	57	3.7
7	.04	1.2	2.0	368	.22	.33	76	.06	160	113	72	3.6
8	.03	1.5	1.6	363	.23	.24	76	.04	156	115	52	3.5
9	.06	.32	1.5	356	.26	.19	76	.03	151	115	52	3.4
10	.07	.27	1.5	349	.29	.20	76	.03	146	113	52	3.2
11	.04	.27	1.5	343	.31	.22	76	.02	142	112	52	2.8
12	.03	.22	103	345	.32	.30	76	.02	94	111	52	2.4
13	5.4	.20	193	339	88	107	75	.01	57	111	104	2.4
14	82	.18	191	335	236	206	75	.01	57	111	139	2.4
15	135	.16	193	324	237	165	76	.00	57	111	140	2.5
16	135	.15	226	315	239	67	75	.00	57	112	140	2.8
17	135	.12	271	255	237	66	74	.00	56	111	140	2.8
18	166	.08	271	218	235	66	125	.00	55	112	141	2.4
19	185	.07	339	219	230	74	152	.00	55	112	140	2.2
20	182	.12	397	221	151	48	150	.00	54	113	141	1.8
21	181	.19	390	220	1.3	24	149	.00	50	112	144	1.7
22	179	.16	382	216	138	.05	147	.00	36	111	160	1.6
23	175	106	375	210	235	.02	144	.00	35	114	169	1.6
24	175	183	366	177	235	.02	144	.00	35	115	168	1.5
25	71	184	364	154	236	.01	142	.00	35	115	166	1.5
26	1.5	182	180	79	236	.01	140	.00	35	114	166	1.3
27	1.1	178	7.8	25	211	.01	68	.00	34	77	168	1.2
28	1.0	176	6.4	1.2	233	.02	16	.00	51	53	166	27
29	.83	70	5.8	.79	237	.02	14	.00	74	53	163	67
30	.76	2.8	141	.75	---	14	13	.00	74	53	162	66
31	.77	---	413	.64	---	38	---	5.2	---	54	72	---
TOTAL	1812.84	1094.05	4836.7	7770.38	3420.13	2168.64	2663	50.69	2704	3018	3449	230.1
MEAN	58.5	36.5	156	251	118	70.0	88.8	1.64	90.1	97.4	111	7.67
MAX	185	184	413	406	239	238	152	20	178	115	169	67
MIN	.03	.07	1.5	.64	.22	.01	13	.00	34	53	52	1.2

CAL YR 1983 TOTAL 51758.48 MEAN 142 MAX 473 MIN .00
WTR YR 1984 TOTAL 33217.53 MEAN 90.8 MAX 413 MIN .00

NOTE.--No gage height record Nov. 12-14, Feb. 4-9, Mar. 23-28, May 6-9, 13-30.

02294491 SADDLE CREEK AT STRUCTURE P-11 NEAR BARTOW, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1967, 1969 to currrent year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT								
04...	1050	--	--	--	--	--	27	--
17...	1205	11.95	117	245	9.0	26.0	--	7.6
DEC								
13...	1200	12.30	193	250	9.6	19.5	24	7.8
FEB								
14...	1830	12.55	237	305	9.5	21.0	--	15.8
MAR								
26...	1245	10.02	--	340	9.0	25.0	--	8.4
MAY								
21...	1113	10.05	--	333	9.0	28.0	--	7.7
JUN								
05...	1120	12.28	168	262	10.3	28.0	--	11.5
AUG								
09...	0730	11.16	52	240	9.0	31.0	--	2.3

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT							
04...	.010	.01	.060	2.6	1.10	.780	--
17...	--	--	--	--	--	--	25
DEC							
13...	.010	<.02	.530	5.2	.630	.260	--
FEB							
14...	.010	<.02	.050	4.2	.540	.330	--
MAR							
26...	.140	.32	1.20	5.6	1.10	.740	--
MAY							
21...	--	--	--	--	--	--	18
JUN							
05...	.010	<.02	.030	7.4	.660	.170	--
AUG							
09...	<.010	<.02	.060	8.2	.830	.330	--

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL

LOCATION.--Lat 27°54'07", long 81°49'03", in NE¼ sec.4, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 60, 500 ft downstream from McKinney Branch, 0.6 mi east of Bartow, and 105 mi upstream from mouth.

DRAINAGE AREA.--390 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1950, published as Peace Creek at Bartow.

REVISED RECORDS.--WSP 1234: Drainage area. WRD FL 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 87.56 ft National Geodetic Vertical Datum of 1929. Prior to July 12, 1940, nonrecording gage and July 12, 1940 to Nov. 5, 1948, water-stage recorder, at site 200 ft downstream; prior to May 1, 1975, at datum 3.00 ft higher.

REMARKS.--Records fair. Since 1949, records include an appreciable amount of waste water diverted from groundwater supplies into McKinney Branch by chemical plants and phosphate mines; since July 1963, considerable regulation by control structure P-11 on Saddle Creek.

AVERAGE DISCHARGE.--45 years, 249 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft^3/s Sept. 24, 1947, from rating curve extended above 2,900 ft^3/s; maximum gage height, 11.01 ft Sept. 13, 14, 1960, present datum; minimum discharge, 1.1 ft^3/s Apr. 27, 1968; minimum gage height, 2.47 ft Apr. 25, 26, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 832 ft^3/s Jan. 1, gage height, 7.54 ft; minimum, 13 ft^3/s May 22, gage height, 3.30 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	64	98	827	149	427	124	43	59	119	186	115
2	64	63	114	807	141	414	115	45	164	135	184	97
3	59	63	107	775	137	400	108	35	175	164	182	91
4	59	60	99	756	133	385	135	20	175	169	175	90
5	54	55	91	729	122	368	149	19	171	183	173	121
6	49	50	84	702	111	328	151	22	167	192	196	122
7	47	49	94	683	100	179	140	29	164	201	206	133
8	44	56	99	660	93	153	135	22	162	196	197	136
9	50	63	92	642	88	131	135	28	159	186	196	126
10	69	64	85	641	86	117	135	28	155	185	188	115
11	76	65	80	637	86	109	135	25	151	181	183	101
12	84	62	136	644	89	104	135	22	131	177	173	92
13	96	58	281	636	130	163	129	20	87	181	195	82
14	125	52	315	629	364	285	126	19	92	186	275	73
15	178	49	330	614	436	282	130	18	87	187	238	66
16	188	49	361	597	425	188	133	17	88	200	221	60
17	192	46	498	577	404	166	131	16	86	233	218	54
18	222	41	541	507	384	158	145	16	100	252	210	48
19	247	39	569	498	366	158	179	15	117	252	203	48
20	240	47	629	502	330	145	185	14	113	267	200	61
21	229	65	650	477	160	126	188	15	111	261	206	56
22	222	69	653	468	238	106	188	18	90	260	213	57
23	216	100	641	454	438	98	186	22	85	267	221	53
24	220	185	623	434	470	98	185	19	84	262	221	45
25	185	196	590	393	476	97	183	21	79	257	216	37
26	109	194	495	327	473	91	173	24	75	238	220	30
27	96	191	255	222	444	85	139	25	70	212	255	30
28	84	189	211	182	439	83	66	27	75	171	269	58
29	77	155	247	165	436	80	51	25	109	162	267	115
30	71	71	456	156	---	82	44	24	114	161	256	119
31	67	---	780	152	---	100	---	22	---	172	206	---
TOTAL	3791	2510	10304	16493	7748	5706	4158	715	3495	6269	6549	2431
MEAN	122	83.7	332	532	267	184	139	23.1	117	202	211	81.0
MAX	247	196	780	827	476	427	188	45	175	267	275	136
MIN	44	39	80	152	86	80	44	14	59	119	173	30

CAL YR 1983 TOTAL 131461 MEAN 360 MAX 1150 MIN 21
WTR YR 1984 TOTAL 70169 MEAN 192 MAX 827 MIN 14

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.51	4.30	4.83	7.53	5.44	6.60	5.22	3.99	4.19	5.14	5.79	5.07
2	4.41	4.29	5.06	7.49	5.38	6.57	5.08	4.02	5.63	5.31	5.77	4.81
3	4.33	4.30	4.95	7.42	5.34	6.55	4.97	3.82	5.72	5.63	5.76	4.73
4	4.28	4.24	4.84	7.39	5.30	6.52	5.36	3.50	5.71	5.67	5.71	4.72
5	4.21	4.18	4.72	7.32	5.17	6.48	5.50	3.47	5.68	5.77	5.70	5.17
6	4.14	4.10	4.62	7.27	5.01	6.36	5.51	3.54	5.65	5.83	5.85	5.19
7	4.10	4.08	4.77	7.22	4.86	5.74	5.41	3.73	5.63	5.89	5.91	5.33
8	4.06	4.19	4.83	7.17	4.75	5.53	5.36	3.56	5.61	5.85	5.86	5.37
9	4.15	4.29	4.74	7.12	4.69	5.30	5.36	3.69	5.58	5.79	5.85	5.25
10	4.42	4.31	4.64	7.11	4.65	5.11	5.35	3.69	5.55	5.78	5.80	5.07
11	4.52	4.32	4.56	7.10	4.65	4.98	5.35	3.62	5.52	5.75	5.76	4.87
12	4.63	4.28	5.23	7.11	4.69	4.91	5.36	3.54	5.28	5.73	5.70	4.74
13	4.80	4.21	6.23	7.09	5.08	5.53	5.28	3.49	4.66	5.75	5.82	4.59
14	5.17	4.14	6.34	7.07	6.28	6.25	5.24	3.46	4.73	5.79	6.21	4.46
15	5.74	4.09	6.38	7.02	6.46	6.23	5.30	3.45	4.66	5.79	6.07	4.34
16	5.80	4.08	6.47	6.98	6.44	5.80	5.33	3.42	4.68	5.88	5.99	4.24
17	5.83	4.03	6.83	6.92	6.41	5.64	5.31	3.39	4.65	6.05	5.98	4.16
18	5.99	3.95	6.94	6.76	6.36	5.57	5.45	3.36	4.85	6.13	5.93	4.06
19	6.11	3.92	7.00	6.73	6.33	5.58	5.74	3.35	5.11	6.13	5.89	4.07
20	6.08	4.04	7.15	6.74	6.23	5.45	5.78	3.33	5.04	6.19	5.88	4.26
21	6.03	4.32	7.20	6.67	5.52	5.24	5.80	3.34	5.02	6.17	5.91	4.19
22	5.99	4.39	7.21	6.64	5.89	4.93	5.80	3.42	4.72	6.16	5.95	4.21
23	5.96	4.81	7.18	6.60	6.55	4.83	5.79	3.54	4.64	6.19	5.99	4.14
24	5.98	5.78	7.14	6.54	6.64	4.83	5.79	3.47	4.61	6.17	5.99	4.01
25	5.73	5.86	7.05	6.43	6.67	4.81	5.77	3.53	4.55	6.15	5.97	3.88
26	4.98	5.84	6.81	6.25	6.67	4.73	5.70	3.61	4.47	6.07	5.98	3.74
27	4.79	5.82	6.12	5.90	6.61	4.63	5.34	3.63	4.41	5.94	6.14	3.73
28	4.62	5.81	5.93	5.69	6.61	4.60	4.34	3.68	4.47	5.69	6.20	4.21
29	4.50	5.48	6.03	5.58	6.61	4.56	4.11	3.63	4.98	5.61	6.19	5.07
30	4.42	4.42	6.70	5.51	---	4.58	4.00	3.60	5.06	5.60	6.15	5.14
31	4.35	---	7.44	5.47	---	4.85	---	3.56	---	5.68	5.87	---
MEAN	4.99	4.53	6.00	6.77	5.77	5.46	5.32	3.56	5.04	5.85	5.92	4.56
MAX	6.11	5.86	7.44	7.53	6.67	6.60	5.80	4.02	5.72	6.19	6.21	5.37
MIN	4.06	3.92	4.56	5.47	4.65	4.56	4.00	3.33	4.19	5.14	5.70	3.73

CAL YR 1983 MEAN 5.84 MAX 7.95 MIN 3.49
WTR YR 1984 MEAN 5.32 MAX 7.53 MIN 3.33

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT											
04...	0730	4.28	57	384	--	7.0	--	26.0	--	9.0	2.7
17...	1255	5.81	185	250	264	8.6	7.5	26.0	80	--	6.6
DEC											
14...	1300	6.34	345	205	--	7.3	--	20.0	--	12	7.0
FEB											
15...	1048	6.45	427	255	--	8.6	--	18.5	--	--	7.0
MAR											
26...	1430	4.72	89	270	--	8.3	--	24.0	--	--	5.1
MAY											
21...	1155	3.34	15	310	286	7.4	6.9	27.5	50	--	4.5
JUN											
07...	1245	5.63	167	320	--	10.1	--	28.0	--	--	8.1
AUG											
08...	1300	5.83	183	225	--	6.8	--	30.0	--	--	3.5

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
04...	--	--	--	--	--	--	--	--	--	.040	.67
17...	23	6.6	18	4.5	41	21	1.0	8.1	200	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	.020	.20
FEB											
15...	--	--	--	--	--	--	--	--	--	.020	.26
MAR											
26...	--	--	--	--	--	--	--	--	--	.040	.47
MAY											
21...	17	7.2	30	5.9	46	23	.80	4.4	200	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	.010	<.02
AUG											
08...	--	--	--	--	--	--	--	--	--	.020	.05

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT											
04...	2.10	3.0	7.60	7.60	--	--	--	--	--	--	--
17...	--	--	--	--	440	3	<1	3	480	380	100
DEC											
14...	.200	3.3	.590	.370	--	--	--	--	--	--	--
FEB											
15...	.390	2.6	1.10	.800	--	--	--	--	--	--	--
MAR											
26...	.360	2.1	3.90	3.50	--	--	--	--	--	--	--
MAY											
21...	--	--	--	--	300	1	1	4	360	--	210
JUN											
07...	.030	7.1	1.20	.590	--	--	--	--	--	--	--
AUG											
08...	.050	3.8	1.30	1.10	--	--	--	--	--	--	--

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT											
17...	2	1	1	20	<10	<.1	2	160	10	24	41
MAY											
21...	2	--	1	30	10	.1	4	150	30	14	58

PEACE RIVER BASIN

02294781 PEACE RIVER NEAR HOMELAND, FL

LOCATION.--Lat 27°49'15", long 81°47'59", in SE¼ sec.34, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 640, 1.6 mi east of U. S. Highway 17 in Homeland, and 97 mi upstream from mouth.

DRAINAGE AREA.--437 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1974, 1979 (miscellaneous high-water discharge measurements only); October 1980 to current year (discharge measurements only).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 1,040 ft^3/s Apr. 6, 1983; minimum measured, 1.04 ft^3/s June 24, 1981.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)
OCT 03...	1610	60	JUN 05...	1740	128
DEC 14...	1500	310	AUG 07...	1615	244
MAR 27...	0730	71			

PEACE RIVER BASIN

02294781 PEACE RIVER NEAR HOMELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1968, 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT												
03...	1610	83.22	378	6.9	28.0	.9	.130	1.3	2.30	3.9	7.30	6.60
DEC												
14...	1500	84.77	280	7.3	19.5	7.0	.030	.61	1.30	3.4	1.80	1.20
MAR												
27...	0730	83.42	293	6.5	21.0	2.5	.130	1.2	.850	2.3	3.20	3.00
JUN												
05...	1740	83.92	315	8.3	30.0	10.5	.010	<.02	.040	5.9	1.60	.800
AUG												
07...	1615	84.80	310	6.8	32.0	5.5	.030	.25	.510	3.6	2.10	1.70

PEACE RIVER BASIN

02294898 PEACE RIVER AT FORT MEADE, FL

LOCATION.--Lat 27°45'04", long 81°46'56", in SE¼ sec.26, T.31 S., R.25 E., Polk County, Hydrologic Unit 03100101, near right bank on downstream side of bridge on U. S. Highway 98, 0.4 mi downstream from Sink Branch, 1.2 mi east of U. S. Highway 17 in Fort Meade, and 92 mi upstream from mouth.

DRAINAGE AREA.--480 mi², revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to June 1964 (fragmentary); July 1964 to April 1967 (gage heights only); May 1967 to September 1969, February 1972 to May 1974 (gage heights and periodic discharge measurements only), incomplete; June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 10, 1974, nonrecording gage at same site and datum.

REMARKS.--Records good. Water diverted into river from ground-water sources by upstream mining industries affects flow on many days. Significant loss of water to ground-water system may occur each year between 02294650 Peace River at Bartow and this station.

AVERAGE DISCHARGE.--10 years (water years 1975-84), 187 ft³/s, 5.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s Sept. 27, 1979, gage height, 78.12 ft; minimum daily discharge, 1.2 ft³/s July 8, 1981 (estimated); minimum gage height, 69.74 ft June 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 873 ft³/s Jan. 3, gage height, 76.62 ft; minimum, 11 ft³/s May 19, gage height, 70.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	63	157	548	161	408	83	39	24	94	168	219
2	90	63	121	732	157	398	98	40	40	95	165	139
3	90	77	120	858	143	391	95	41	99	109	169	98
4	85	59	109	852	144	379	125	28	112	133	163	107
5	76	56	102	803	134	374	149	20	120	162	162	176
6	85	53	91	763	120	360	130	25	126	161	294	141
7	67	53	95	738	109	351	128	36	125	153	334	127
8	59	59	113	700	99	321	123	33	124	157	308	127
9	55	62	106	666	108	174	121	25	127	161	320	136
10	57	71	101	646	92	130	120	26	118	155	271	119
11	75	68	92	632	81	110	122	24	114	169	207	102
12	88	63	103	637	80	104	128	19	113	177	198	90
13	90	60	142	639	90	147	118	15	106	159	209	80
14	93	58	206	610	160	169	120	14	89	155	245	74
15	109	57	306	601	229	233	118	14	69	159	302	66
16	148	53	349	582	302	261	120	15	79	175	317	63
17	171	55	352	568	332	229	116	16	88	187	297	54
18	185	48	389	560	329	175	115	13	95	190	236	57
19	205	43	479	562	327	151	137	13	168	214	211	56
20	207	49	548	522	325	148	160	18	132	213	209	55
21	210	69	586	476	329	150	169	16	122	214	257	56
22	213	87	627	462	326	129	163	18	96	210	277	46
23	216	98	653	439	271	104	163	44	83	240	246	46
24	226	107	675	419	293	104	165	61	76	252	238	45
25	227	147	667	395	354	95	164	40	70	262	212	40
26	207	163	640	381	396	90	168	23	65	291	201	34
27	119	173	600	346	430	85	156	21	61	257	188	32
28	92	173	513	275	455	80	119	21	58	218	200	56
29	80	176	387	209	425	89	62	23	58	185	208	64
30	73	179	461	192	---	75	44	47	81	161	240	91
31	67	---	492	176	---	72	---	46	---	167	225	---
TOTAL	3859	2542	10382	16989	6801	6086	3799	834	2838	5635	7277	2596
MEAN	124	84.7	335	548	235	196	127	26.9	94.6	182	235	86.5
MAX	227	179	675	858	455	408	169	61	168	291	334	219
MIN	55	43	91	176	80	72	44	13	24	94	162	32
CFSM	.26	.18	.70	1.14	.49	.41	.27	.06	.20	.38	.49	.18
IN.	.30	.20	.80	1.32	.53	.47	.29	.06	.22	.44	.56	.20

CAL YR 1983 TOTAL 135191 MEAN 370 MAX 1090 MIN 25 CFSM .77 IN 10.48
WTR YR 1984 TOTAL 69638 MEAN 190 MAX 858 MIN 13 CFSM .40 IN 5.40

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294898 PEACE RIVER AT FORT MEADE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.57	71.15	72.31	75.14	72.35	74.32	71.42	70.77	70.52	71.56	72.52	73.06
2	71.51	71.14	71.92	76.03	72.32	74.25	71.62	70.80	70.76	71.59	72.50	72.19
3	71.52	71.34	71.90	76.56	72.16	74.21	71.58	70.81	71.63	71.76	72.54	71.66
4	71.44	71.10	71.76	76.54	72.17	74.13	71.95	70.59	71.80	72.06	72.47	71.77
5	71.33	71.04	71.68	76.34	72.06	74.10	72.23	70.43	71.90	72.37	72.45	72.63
6	71.45	71.01	71.53	76.17	71.90	74.00	72.01	70.53	71.97	72.37	73.72	72.23
7	71.20	71.00	71.58	76.07	71.76	73.94	72.00	70.73	71.96	72.28	74.04	72.05
8	71.10	71.09	71.81	75.90	71.64	73.72	71.94	70.68	71.94	72.33	73.85	72.05
9	71.04	71.14	71.73	75.74	71.75	72.48	71.91	70.53	71.99	72.37	73.95	72.17
10	71.07	71.26	71.67	75.65	71.54	72.02	71.90	70.55	71.88	72.31	73.54	71.95
11	71.32	71.22	71.55	75.59	71.40	71.78	71.92	70.52	71.83	72.47	72.94	71.72
12	71.49	71.14	71.68	75.61	71.38	71.70	71.99	70.41	71.81	72.55	72.86	71.55
13	71.51	71.10	72.15	75.62	71.52	72.20	71.87	70.34	71.72	72.37	72.97	71.40
14	71.55	71.08	72.79	75.48	72.33	72.43	71.89	70.32	71.51	72.32	73.31	71.31
15	71.76	71.06	73.60	75.43	72.99	73.03	71.88	70.32	71.24	72.37	73.81	71.19
16	72.22	71.01	73.92	75.33	73.58	73.26	71.90	70.33	71.37	72.54	73.93	71.15
17	72.46	71.03	73.94	75.26	73.80	72.99	71.85	70.35	71.49	72.66	73.76	71.02
18	72.59	70.93	74.20	75.21	73.78	72.50	71.83	70.30	71.57	72.70	73.23	71.07
19	72.78	70.85	74.76	75.23	73.77	72.25	72.10	70.29	72.43	72.93	72.99	71.04
20	72.80	70.94	75.15	75.01	73.76	72.22	72.34	70.39	72.04	72.93	72.97	71.03
21	72.83	71.22	75.35	74.74	73.78	72.23	72.44	70.35	71.92	72.94	73.42	71.05
22	72.85	71.47	75.56	74.66	73.76	72.00	72.38	70.39	71.60	72.91	73.59	70.90
23	72.88	71.62	75.69	74.51	73.34	71.70	72.37	70.86	71.42	73.18	73.32	70.90
24	72.97	71.73	75.79	74.39	73.51	71.70	72.40	71.12	71.33	73.30	73.24	70.88
25	72.97	72.21	75.74	74.24	73.95	71.58	72.39	70.78	71.25	73.39	73.00	70.79
26	72.80	72.38	75.62	74.14	74.24	71.52	72.43	70.50	71.18	73.63	72.89	70.69
27	71.88	72.48	75.42	73.90	74.46	71.44	72.30	70.45	71.11	73.36	72.76	70.65
28	71.55	72.48	74.95	73.37	74.61	71.38	71.87	70.45	71.08	73.00	72.88	71.04
29	71.39	72.51	74.17	72.82	74.43	71.51	71.13	70.49	71.08	72.68	72.96	71.15
30	71.29	72.53	74.65	72.66	---	71.31	70.87	70.91	71.39	72.43	73.26	71.52
31	71.21	---	74.84	72.50	---	71.27	---	70.90	---	72.51	73.13	---
MEAN	71.88	71.41	73.53	75.03	72.90	72.55	71.96	70.55	71.56	72.59	73.19	71.46
MAX	72.97	72.53	75.79	76.56	74.61	74.32	72.44	71.12	72.43	73.63	74.04	73.06
MIN	71.04	70.85	71.53	72.50	71.38	71.27	70.87	70.29	70.52	71.56	72.45	70.65

CAL YR 1983 MEAN 73.60 MAX 77.35 MIN 70.60
WTR YR 1984 MEAN 72.39 MAX 76.56 MIN 70.29

PEACE RIVER BASIN

02294898 PEACE RIVER AT FORT MEADE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-69, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT								
03...	1430	71.41	78	333	7.0	26.5	9.0	6.3
17...	1435	72.44	170	293	8.0	26.0	--	6.8
DEC								
14...	1700	72.95	221	280	7.2	20.0	12	6.5
FEB								
15...	1344	72.99	231	350	7.0	19.0	--	7.2
MAR								
27...	1130	71.45	84	315	7.3	23.0	--	4.3
MAY								
21...	1320	70.40	16	460	7.6	26.5	--	9.3
JUN								
06...	1024	71.98	127	368	8.9	27.0	--	7.6
AUG								
09...	1220	--	314	310	6.7	31.0	--	3.9

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT							
03...	.170	1.8	.880	1.6	4.90	4.90	--
17...	--	--	--	--	--	--	21
DEC							
14...	.090	.92	.730	2.9	1.90	1.30	--
FEB							
15...	.180	1.6	1.40	2.7	2.70	2.00	--
MAR							
27...	.180	1.9	.450	1.7	2.70	2.50	--
MAY							
21...	--	--	--	--	--	--	12
JUN							
06...	.010	.02	.040	5.4	2.50	.850	--
AUG							
09...	.110	.55	.660	2.7	2.00	1.30	--

PEACE RIVER BASIN

02295420 PAYNE CREEK NEAR BOWLING GREEN, FL

LOCATION.--Lat 27°37'13", long 81°49'33", in SW¼ sec.9, T.33 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 0.4 mi downstream from Little Payne Creek, 1.2 mi south of Bowling Green, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--October 1963 to September 1968; October 1979 to current year.

REVISED RECORDS.--WRD FL-81-3: 1980.

GAGE.--Water-stage recorder. Datum of gage is 51.06 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some diversion by pumping for irrigation.

AVERAGE DISCHARGE.--10 years (water years 1964-68, 1980-84), 105 ft^3/s, 11.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,170 ft^3/s June 18, 1982; maximum gage height, 17.88 ft Aug. 11, 1965; minimum discharge, 0 84 ft^3/s May 5, 21, 1967; minimum gage height, 2.42 ft May 21, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 369 ft^3/s Aug. 7, gage height, 7.79 ft; minimum, 9.7 ft^3/s Sept. 26, 27, gage height, 3.11 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	32	83	262	72	78	70	15	87	24	87	73
2	120	36	61	216	73	69	57	12	77	28	100	67
3	122	38	56	190	74	76	44	13	50	57	105	59
4	125	32	59	156	69	89	51	15	36	66	159	51
5	119	31	58	141	65	79	60	18	25	52	175	50
6	111	36	54	142	66	73	53	28	20	98	286	78
7	100	37	57	141	69	68	52	32	16	71	357	65
8	97	52	57	134	65	63	57	26	14	66	245	61
9	100	53	58	120	60	57	56	23	12	56	174	52
10	83	49	56	118	58	53	58	25	12	50	127	45
11	73	47	49	138	57	52	52	25	16	58	100	40
12	72	44	69	137	57	53	47	21	18	62	91	36
13	71	40	75	131	63	154	47	18	20	40	77	30
14	70	35	67	128	91	143	53	17	23	39	97	27
15	69	33	145	129	87	122	61	18	23	50	98	26
16	84	33	176	123	78	106	77	18	22	137	77	26
17	83	31	149	117	71	98	80	21	41	99	71	24
18	69	30	131	116	65	87	80	22	105	90	77	28
19	66	32	118	117	58	77	76	20	58	65	76	26
20	58	37	146	109	51	69	70	18	35	73	71	26
21	55	60	138	109	50	77	67	18	54	129	77	24
22	54	54	125	109	104	72	61	30	32	131	128	23
23	48	45	113	103	131	89	56	71	24	120	112	22
24	55	40	100	99	106	120	56	47	25	129	136	19
25	87	41	91	89	101	102	50	51	28	148	169	14
26	56	38	82	81	90	91	30	34	30	272	110	11
27	48	35	81	76	79	82	23	29	31	253	82	11
28	43	35	77	75	106	81	19	40	30	193	69	39
29	38	35	119	77	96	82	19	46	25	151	62	36
30	34	61	315	72	---	75	18	72	24	120	60	26
31	32	---	313	71	---	71	---	81	---	99	65	---
TOTAL	2368	1202	3278	3826	2212	2608	1600	924	1013	3026	3720	1115
MEAN	76.4	40.1	106	123	76.3	84.1	53.3	29.8	33.8	97.6	120	37.2
MAX	126	61	315	262	131	154	80	81	105	272	357	78
MIN	32	30	49	71	50	52	18	12	12	24	60	11
CFSM	.63	.33	.88	1.02	.63	.70	.44	.25	.28	.81	.99	.31
IN.	.73	.37	1.01	1.18	.68	.80	.49	.28	.31	.93	1.14	.34

CAL YR 1983 TOTAL 53012 MEAN 145 MAX 572 MIN 27 CFSM 1.20 IN 16.30
WTR YR 1984 TOTAL 26892 MEAN 73.5 MAX 357 MIN 11 CFSM .61 IN 8.27

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL

LOCATION.--Lat 27°30'15", long 81°48'04", in SE¼ sec.22, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 0.8 mi north of Zolfo Springs, and 69 mi upstream from mouth.

DRAINAGE AREA.--826 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1933 to current year. Prior to October 1950, published as Peace Creek at Zolfo Springs.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 30.20 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at same site at datum 5.00 ft higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years, 668 ft³/s, 10.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft³/s Sept. 6, 1933, gage height, 25.05 ft present datum; minimum discharge, 22 ft³/s May 24, 1977; minimum gage height, 3.66 ft May 22, 23, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft³/s Dec. 31, gage height, 10.86 ft; minimum, 45 ft³/s May 20, gage height, 3.86 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	235	330	1260	352	649	223	91	245	144	462	371
2	416	228	300	1150	347	601	223	83	207	164	434	349
3	388	242	280	1170	336	578	218	82	201	250	418	256
4	374	231	260	1210	330	568	228	85	217	284	505	222
5	360	192	249	1190	315	546	298	70	208	357	510	337
6	347	188	242	1130	294	529	289	68	205	405	971	594
7	330	191	247	1080	287	512	263	87	194	330	1260	369
8	323	244	257	1030	279	492	256	96	190	289	1260	296
9	319	269	282	972	268	408	247	81	178	278	1190	273
10	310	264	265	945	277	295	249	72	178	268	1070	258
11	305	257	254	975	244	265	233	72	164	275	710	224
12	300	237	304	967	220	248	227	69	157	301	529	214
13	290	226	346	962	234	639	226	58	156	274	528	179
14	282	208	372	947	389	681	230	52	175	246	507	159
15	300	198	602	895	420	550	254	53	171	299	550	143
16	400	194	820	876	448	519	274	54	142	444	551	146
17	547	182	753	854	491	483	262	54	180	426	522	157
18	530	194	706	837	491	415	250	59	311	511	452	149
19	512	186	710	832	477	350	243	53	321	432	396	141
20	503	179	808	834	467	318	257	46	273	429	380	145
21	512	253	895	798	468	334	269	52	231	725	465	134
22	480	268	899	739	629	329	266	66	203	604	680	121
23	434	265	923	708	798	333	258	237	158	506	665	104
24	479	246	930	673	662	413	269	219	152	602	784	107
25	802	267	913	656	608	364	262	269	146	629	755	99
26	612	272	885	622	608	318	245	211	139	1120	547	91
27	467	278	860	596	619	291	236	193	131	1190	443	104
28	344	288	802	532	786	271	209	328	127	938	384	169
29	294	273	709	444	740	263	156	251	117	663	370	196
30	272	300	1220	402	---	258	111	278	126	550	375	175
31	249	---	1340	379	---	233	---	291	---	524	417	---
TOTAL	12547	7055	18763	26665	12884	13053	7231	3780	5603	14457	19090	6282
MEAN	405	235	605	860	444	421	241	122	187	466	616	209
MAX	802	300	1340	1260	798	681	298	328	321	1190	1260	594
MIN	249	179	242	379	220	233	111	46	117	144	370	91
CFSM	.49	.28	.73	1.04	.54	.51	.29	.15	.23	.56	.74	.25
IN.	.56	.32	.84	1.20	.58	.59	.32	.17	.25	.65	.86	.28

CAL YR 1983 TOTAL 294725 MEAN 807 MAX 2820 MIN 101 CFSM .98 IN 13.24
WTR YR 1984 TOTAL 147410 MEAN 403 MAX 1340 MIN 46 CFSM .49 IN 6.62

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.04	5.63	6.21	10.49	6.32	7.84	5.55	4.47	5.69	4.94	6.91	6.43
2	6.72	5.58	6.03	10.04	6.30	7.62	5.55	4.38	5.43	5.10	6.76	6.31
3	6.52	5.67	5.91	10.14	6.24	7.50	5.51	4.37	5.38	5.73	6.67	5.76
4	6.41	5.59	5.79	10.32	6.21	7.45	5.58	4.40	5.50	5.92	7.13	5.54
5	6.34	5.32	5.72	10.24	6.12	7.34	6.02	4.23	5.44	6.35	7.15	6.23
6	6.29	5.28	5.67	10.00	6.00	7.25	5.96	4.21	5.42	6.61	9.31	7.57
7	6.22	5.31	5.71	9.77	5.95	7.16	5.81	4.42	5.33	6.20	10.49	6.42
8	6.19	5.68	5.77	9.55	5.91	7.06	5.76	4.52	5.30	5.96	10.49	6.01
9	6.17	5.85	5.92	9.32	5.84	6.62	5.71	4.36	5.21	5.90	10.23	5.87
10	6.13	5.82	5.82	9.20	5.89	6.00	5.72	4.26	5.21	5.83	9.72	5.78
11	6.11	5.77	5.75	9.33	5.68	5.82	5.62	4.26	5.11	5.88	8.13	5.55
12	6.03	5.64	6.05	9.29	5.52	5.71	5.57	4.22	5.05	6.03	7.25	5.48
13	5.97	5.56	6.30	9.27	5.61	7.76	5.57	4.08	5.04	5.87	7.24	5.22
14	5.92	5.44	6.43	9.21	6.52	7.99	5.59	3.99	5.19	5.70	7.14	5.06
15	6.03	5.36	7.59	8.98	6.68	7.36	5.75	4.00	5.16	6.00	7.36	4.94
16	6.58	5.34	8.64	8.89	6.84	7.20	5.88	4.02	4.93	6.81	7.36	4.96
17	7.34	5.24	8.33	8.79	7.06	7.02	5.80	4.02	5.21	6.72	7.21	5.05
18	7.25	5.33	8.11	8.72	7.06	6.66	5.73	4.09	6.09	7.16	6.86	4.99
19	7.16	5.27	8.13	8.69	6.98	6.31	5.68	4.00	6.15	6.75	6.56	4.92
20	7.11	5.22	8.58	8.70	6.94	6.13	5.77	3.89	5.87	6.73	6.47	4.95
21	7.16	5.74	8.98	8.54	6.94	6.23	5.85	3.98	5.60	8.20	6.91	4.86
22	7.00	5.84	9.00	8.26	7.73	6.20	5.82	4.16	5.40	7.62	7.99	4.75
23	6.76	5.82	9.10	8.12	8.53	6.22	5.77	5.62	5.06	7.13	7.92	4.59
24	6.98	5.70	9.13	7.96	7.90	6.64	5.85	5.52	5.01	7.62	8.47	4.62
25	8.55	5.83	9.06	7.88	7.65	6.39	5.80	5.84	4.96	7.75	8.34	4.54
26	7.66	5.86	8.93	7.71	7.65	6.14	5.70	5.45	4.90	9.92	7.34	4.47
27	6.93	5.90	8.82	7.59	7.70	5.98	5.63	5.32	4.83	10.22	6.81	4.59
28	6.28	5.96	8.55	7.26	8.48	5.86	5.44	6.19	4.80	9.16	6.49	5.14
29	6.00	5.87	8.13	6.81	8.27	5.81	5.04	5.73	4.71	7.91	6.42	5.35
30	5.86	6.03	10.35	6.58	---	5.78	4.66	5.90	4.79	7.35	6.45	5.19
31	5.72	---	10.81	6.47	---	5.61	---	5.98	---	7.22	6.67	---
MEAN	6.59	5.61	7.53	8.78	6.78	6.67	5.66	4.64	5.26	6.85	7.62	5.37
MAX	8.55	6.03	10.81	10.49	8.53	7.99	6.02	6.19	6.15	10.22	10.49	7.57
MIN	5.72	5.22	5.67	6.47	5.52	5.61	4.66	3.89	4.71	4.94	6.42	4.47

CAL YR 1983 MEAN 8.30 MAX 14.59 MIN 4.63
WTR YR 1984 MEAN 6.45 MAX 10.81 MIN 3.89

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-52, 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 02...	0945	5.57	218	332	340	7.5	7.3	22.0	70	7.1	33
JAN 11...	1145	9.36	995	280	--	7.3	--	16.0	--	9.5	--
MAR 06...	1030	7.27	548	292	--	7.6	--	21.0	--	8.2	--
MAY 08...	1550	4.53	94	385	--	7.5	--	30.0	--	9.5	--
22...	1117	4.16	66	413	--	6.6	--	27.0	--	7.3	--
JUL 10...	1330	5.74	255	280	--	7.8	--	29.0	--	8.8	--
SEP 12...	1300	5.49	220	310	--	7.5	--	26.5	--	6.3	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 02...	13	16	2.3	77	17	1.7	8.3	259	.030	2.0	.040
JAN 11...	--	--	--	--	--	--	--	--	.040	.72	.230
MAR 06...	--	--	--	--	--	--	--	--	.010	.65	.030
MAY 08...	--	--	--	--	--	--	--	--	.010	1.6	.030
22...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	.010	.42	.020
SEP 12...	--	--	--	--	--	--	--	--	.010	1.1	.050

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV 02...	.88	2.00	2.10	430	4	2	2	840	730	110	5
JAN 11...	1.2	1.00	.940	--	--	--	--	--	--	--	--
MAR 06...	1.6	1.70	1.70	--	--	--	--	--	--	--	--
MAY 08...	.90	1.40	1.20	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	4.9	2.10	1.80	--	--	--	--	--	--	--	--
SEP 12...	1.0	1.70	1.50	--	--	--	--	--	--	--	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
NOV 02...	0	5	20	7	13	<.1	5	300	12	12	51
MAY 22...	--	--	--	--	--	--	--	--	--	9.2	--

PEACE RIVER BASIN

02296500 CHARLIE CREEK NEAR GARDNER, FL

LOCATION.--Lat 27°22'29", long 81°47'48", in SE¼ sec.3, T.36 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 1.6 mi north of Gardner, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--330 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year. Prior to October 1957, published as Charlie Apopka Creek near Gardner.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 21.66 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years, 281 ft^3/s, 11.56 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,160 ft^3/s Aug. 1, 1960, gage height, 18.77 ft; minimum discharge, 0.13 ft^3/s May 27, 1975; minimum gage height, 1.60 ft May 25, 26, Dec. 11, 12, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 24.2 ft in 1928, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft^3/s July 22, gage height, 10.78 ft; minimum, 4.2 ft^3/s May 19, 20, 21, 22, gage height, 2.04 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	851	116	21	328	47	544	106	12	198	74	685	84
2	675	97	20	326	42	468	86	11	184	90	730	70
3	526	77	20	323	38	412	62	10	163	88	728	56
4	406	58	19	312	37	368	54	9.4	139	92	676	42
5	325	41	19	292	35	327	100	8.6	112	106	589	32
6	268	30	18	266	34	289	86	7.8	86	204	559	26
7	217	27	18	236	29	253	61	9.4	59	181	438	22
8	178	29	17	208	27	222	50	11	42	166	369	24
9	153	41	17	183	25	193	44	14	32	147	318	31
10	129	51	16	167	24	169	50	12	25	123	283	67
11	108	50	16	158	24	150	54	11	19	117	243	100
12	90	47	23	149	24	176	45	9.5	15	99	221	99
13	74	43	70	139	26	680	38	8.3	12	76	193	83
14	73	37	94	130	38	748	33	7.3	11	59	163	58
15	88	32	113	123	44	633	39	6.8	9.9	54	146	38
16	136	29	215	116	48	577	73	6.3	10	186	142	25
17	197	26	229	108	47	534	79	5.6	11	433	138	17
18	208	22	411	102	46	490	66	5.0	21	638	131	14
19	223	20	406	96	47	436	54	4.7	77	642	118	13
20	246	19	324	91	44	379	42	4.3	145	753	103	13
21	266	22	293	90	40	328	33	4.4	183	1190	101	13
22	270	27	270	89	62	283	28	4.8	214	1310	187	13
23	255	29	246	85	248	252	23	14	220	1240	274	13
24	229	29	222	82	307	252	20	57	201	1170	255	11
25	213	28	197	78	276	238	21	82	175	1020	308	9.9
26	214	27	175	74	258	212	20	90	156	952	230	8.6
27	198	26	160	70	252	188	19	111	137	973	182	8.4
28	184	25	149	69	558	169	17	147	116	968	157	12
29	169	23	144	67	650	154	15	169	97	927	138	18
30	153	21	252	59	---	140	13	190	86	849	118	20
31	136	---	337	52	---	123	---	206	---	763	97	---
TOTAL	7458	1149	4531	4668	3377	10387	1431	1249.2	2955.9	15690	9020	1040.9
MEAN	241	38.3	146	151	116	335	47.7	40.3	98.5	506	291	34.7
MAX	851	116	411	328	650	748	106	206	220	1310	730	100
MIN	73	19	16	52	24	123	13	4.3	9.9	54	97	8.4
CFSM	.73	.12	.44	.46	.35	1.02	.15	.12	.30	1.53	.88	.11
IN.	.84	.13	.51	.53	.38	1.17	.16	.14	.33	1.77	1.02	.12

CAL YR 1983 TOTAL 128546.8 MEAN 352 MAX 2580 MIN 7.8 CFSM 1.07 IN 14.49
WTR YR 1984 TOTAL 62957.0 MEAN 172 MAX 1310 MIN 4.3 CFSM .52 IN 7.10

PEACE RIVER BASIN

02296500 CHARLIE CREEK NEAR GARDNER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-67, 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT											
04...	1730	6.46	384	95	--	6.5	--	29.0	--	5.3	--
18...	1300	4.86	215	147	138	7.7	7.0	25.5	160	7.1	11
DEC											
14...	1520	3.62	93	200	--	6.2	--	19.0	--	8.7	--
FEB											
15...	1200	2.90	46	231	--	6.6	--	20.0	--	7.8	--
MAR											
27...	1100	4.68	185	148	--	6.7	--	23.5	--	7.2	--
MAY											
22...	1230	2.07	8.2	263	--	6.9	--	28.0	--	6.9	--
JUN											
06...	1150	3.45	89	152	--	6.6	--	27.5	--	6.1	--
AUG											
14...	1940	4.39	154	140	--	6.5	--	30.0	--	5.5	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
04...	--	--	--	--	--	--	--	--	.010	.08	.020
18...	5.0	7.8	3.8	12	18	.30	9.1	137	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	.010	.12	.020
FEB											
15...	--	--	--	--	--	--	--	--	.010	.32	.030
MAR											
27...	--	--	--	--	--	--	--	--	.010	.14	.030
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	.020	.16	.040
AUG											
14...	--	--	--	--	--	--	--	--	.020	.16	.060

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT										
04...	1.3	.550	.460	--	--	--	--	--	--	--
18...	--	--	--	250	1	<1	1	570	220	350
DEC										
14...	.86	.320	.260	--	--	--	--	--	--	--
FEB										
15...	.95	.450	.410	--	--	--	--	--	--	--
MAR										
27...	1.3	.540	.450	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	1.9	.410	.360	--	--	--	--	--	--	--
AUG										
14...	1.6	.580	.520	--	--	--	--	--	--	--

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296500 CHARLIE CREEK NEAR GARDNER, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT										
18...	1	<1	10	<10	<.1	1	780	20	33	22
MAY										
22...	--	--	--	--	--	--	--	--	12	--

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL

LOCATION.--Lat 27°13'19", long 81°52'34", in SE¼ sec.26, T.37 S., R.24 E., De Soto County, Hydrologic Unit 03100101, on left bank 500 ft upstream from bridge on State Highway 70, 1.0 mi west of post office in Arcadia, 6.1 mi upstream from Joshua Creek, and 36 mi upstream from mouth.

DRAINAGE AREA.--1,367 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1931 to current year. Prior to October 1950, published as Peace Creek at Arcadia.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6.00 ft National Geodetic Vertical Datum of 1929. Prior to July 19, 1931, nonrecording gage and July 19, 1931, to Sept. 30, 1963, water-stage recorder at same site at datum 2.25 ft higher; Mar. 20, 1964, to July 11, 1967, nonrecording gage at same site at datum 6.00 ft lower.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years, 1,141 ft³/s, 11.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,200 ft³/s Sept. 9, 1933, gage height, 19.92 ft, present datum; minimum, 11 ft³/s May 23, 1982; mimimum gage height, 0.58 ft May 22, 23, 26, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 20.6 ft, present datum, in 1912, from information by county engineer; discharge, 43,000 ft³/s, from rating curve extended above 30,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,010 ft³/s Mar. 14, gage height, 8.83 ft; minimum, 49 ft³/s May 21, 22, gage height, 1.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	448	385	1880	503	1800	370	145	488	234	1470	613
2	1510	414	414	1830	469	1480	342	124	437	244	1360	559
3	1260	386	420	1700	454	1260	325	112	383	294	1320	511
4	1080	377	373	1620	446	1130	336	105	353	423	1280	413
5	942	363	349	1610	432	1050	389	103	346	460	1340	367
6	826	315	327	1580	412	965	448	100	317	661	1970	492
7	740	301	318	1500	385	889	405	82	297	710	2180	717
8	680	332	316	1400	371	822	357	89	271	598	2080	561
9	609	403	325	1310	364	761	347	137	256	559	1950	447
10	574	432	346	1240	349	651	363	122	238	487	1790	415
11	545	416	338	1200	350	522	357	99	232	439	1590	408
12	518	396	475	1190	324	520	327	91	212	426	1240	379
13	507	368	548	1180	315	1980	306	87	199	449	945	355
14	520	346	572	1160	370	2950	294	79	194	505	947	312
15	551	321	697	1140	503	2510	310	68	204	415	1020	274
16	601	313	1050	1090	533	1860	370	62	208	588	940	249
17	745	296	1290	1050	552	1470	404	61	209	1030	869	241
18	875	281	1850	1030	587	1250	379	60	305	1310	822	237
19	861	280	1850	1010	591	1060	345	61	388	1350	687	229
20	850	282	1550	992	574	896	320	60	438	1370	609	223
21	846	305	1400	993	559	783	320	54	447	1530	606	216
22	851	369	1370	957	678	726	323	59	429	2170	1000	204
23	819	382	1330	905	1170	712	311	78	432	2310	1390	187
24	757	375	1290	866	1370	776	304	232	398	2230	1830	166
25	841	357	1240	830	1190	819	303	273	370	2210	2170	157
26	1150	367	1190	803	1030	727	294	319	336	2060	1900	149
27	1010	387	1150	772	1020	624	274	301	319	2210	1310	139
28	807	382	1110	741	1790	548	259	321	282	2360	935	164
29	642	377	1070	681	2040	487	231	457	265	2250	756	214
30	550	364	1280	592	---	439	187	439	246	1920	668	253
31	494	---	1700	535	---	412	---	477	---	1650	624	---
TOTAL	25421	10735	27923	35387	19731	32879	9900	4857	9499	35452	39598	9851
MEAN	820	358	901	1142	680	1061	330	157	317	1144	1277	328
MAX	1860	448	1850	1880	2040	2950	448	477	488	2360	2180	717
MIN	494	280	316	535	315	412	187	54	194	234	606	139
CFSM	.60	.26	.66	.84	.50	.78	.24	.12	.23	.84	.93	.24
IN.	.69	.29	.76	.96	.54	.89	.27	.13	.26	.96	1.08	.27

CAL YR 1983 TOTAL 500557 MEAN 1371 MAX 5580 MIN 141 CFSM 1.00 IN 13.62
WTR YR 1984 TOTAL 261233 MEAN 714 MAX 2950 MIN 54 CFSM .52 IN 7.11

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.54	2.84	2.63	6.58	3.04	6.41	2.61	1.69	2.99	1.94	5.68	3.35
2	5.75	2.73	2.73	6.48	2.94	5.68	2.51	1.58	2.80	1.98	5.39	3.18
3	5.16	2.63	2.75	6.19	2.89	5.16	2.45	1.51	2.59	2.20	5.31	3.02
4	4.70	2.60	2.59	6.02	2.86	4.83	2.49	1.48	2.46	2.71	5.22	2.68
5	4.33	2.55	2.51	6.00	2.82	4.61	2.68	1.46	2.42	2.84	5.35	2.51
6	4.00	2.38	2.43	5.91	2.75	4.39	2.87	1.45	2.30	3.50	6.77	2.96
7	3.74	2.33	2.39	5.73	2.66	4.18	2.73	1.33	2.22	3.65	7.22	3.69
8	3.56	2.44	2.39	5.49	2.62	3.99	2.57	1.38	2.11	3.30	7.01	3.20
9	3.34	2.69	2.42	5.28	2.59	3.81	2.53	1.64	2.04	3.18	6.73	2.82
10	3.22	2.79	2.50	5.11	2.53	3.47	2.58	1.56	1.96	2.94	6.40	2.70
11	3.14	2.73	2.47	5.02	2.53	3.06	2.57	1.44	1.93	2.77	5.94	2.68
12	3.05	2.67	2.92	4.99	2.43	3.04	2.46	1.39	1.84	2.72	5.10	2.58
13	3.03	2.57	3.14	4.96	2.39	6.73	2.38	1.36	1.78	2.80	4.34	2.48
14	3.06	2.50	3.22	4.91	2.61	8.72	2.32	1.31	1.76	3.00	4.34	2.31
15	3.15	2.41	3.61	4.84	3.05	7.88	2.39	1.24	1.80	2.68	4.53	2.16
16	3.31	2.38	4.61	4.72	3.14	6.54	2.61	1.19	1.82	3.26	4.32	2.05
17	3.76	2.31	5.23	4.63	3.20	5.67	2.73	1.19	1.82	4.57	4.12	2.01
18	4.14	2.25	6.52	4.56	3.30	5.12	2.64	1.18	2.25	5.28	3.99	2.00
19	4.10	2.24	6.52	4.50	3.31	4.64	2.52	1.19	2.58	5.39	3.58	1.97
20	4.07	2.25	5.85	4.46	3.26	4.20	2.43	1.18	2.77	5.42	3.34	1.94
21	4.06	2.35	5.49	4.47	3.22	3.87	2.43	1.13	2.80	5.80	3.32	1.91
22	4.07	2.58	5.43	4.37	3.57	3.70	2.44	1.17	2.73	7.19	4.47	1.86
23	3.98	2.62	5.33	4.23	4.92	3.66	2.40	1.30	2.75	7.49	5.47	1.78
24	3.80	2.60	5.24	4.11	5.44	3.85	2.37	2.07	2.62	7.32	6.46	1.69
25	4.04	2.53	5.12	4.01	4.99	3.98	2.36	2.24	2.51	7.27	7.20	1.64
26	4.89	2.57	4.99	3.93	4.57	3.71	2.32	2.42	2.38	6.96	6.62	1.61
27	4.52	2.64	4.87	3.84	4.53	3.41	2.25	2.35	2.31	7.29	5.28	1.55
28	3.94	2.62	4.78	3.75	6.38	3.19	2.18	2.43	2.15	7.58	4.30	1.68
29	3.44	2.60	4.68	3.56	6.91	3.00	2.07	2.93	2.08	7.37	3.79	1.92
30	3.15	2.56	5.21	3.30	---	2.85	1.87	2.85	2.00	6.67	3.52	2.10
31	2.98	---	6.19	3.14	---	2.76	---	2.97	---	6.09	3.33	---
MEAN	3.94	2.53	4.09	4.81	3.50	4.52	2.46	1.66	2.29	4.62	5.11	2.33
MAX	6.54	2.84	6.52	6.58	6.91	8.72	2.87	2.97	2.99	7.58	7.22	3.69
MIN	2.98	2.24	2.39	3.14	2.39	2.76	1.87	1.13	1.76	1.94	3.32	1.55

CAL YR 1983 MEAN 5.05 MAX 12.29 MIN 1.74
WTR YR 1984 MEAN 3.50 MAX 8.72 MIN 1.13

PEACE RIVER BASIN

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930, 1940, 1957 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
OCT 19...	0910	4.10	840	337	244	7.6	7.4	25.0	140	3.8	6.4	--
NOV 30...	1100	2.57	360	320	345	6.2	7.3	20.0	--	6.0	8.5	--
FEB 28...	1045	6.42	1800	221	209	5.8	7.2	19.5	--	3.1	7.5	--
MAR 14...	1130	8.82	2950	--	186	--	--	--	--	--	--	--
MAY 22...	1450	1.12	62	398	383	7.5	7.0	30.0	25	--	8.2	--
23...	1300	1.28	74	409	427	7.6	7.2	27.5	--	2.8	5.5	--
JUL 10...	1900	--	--	--	257	--	--	--	--	--	--	3.0
SEP 20...	1345	1.96	215	337	338	6.6	7.4	26.0	--	1.6	4.5	--

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 19...	--	--	--	22	8.7	11	3.2	44	18	.80	8.2	187
NOV 30...	K600	K210	K10	30	11	18	3.6	62	23	1.2	7.5	230
FEB 28...	23000	5500	4800	17	7.1	12	4.4	32	--	.50	4.2	164
MAR 14...	--	--	--	--	--	--	--	--	--	--	4.3	--
MAY 22...	--	--	--	33	15	20	3.0	74	26	1.5	21	240
23...	1600	230	K190	37	17	17	3.0	88	24	1.3	4.9	318
JUL 10...	--	--	--	--	--	--	--	--	21	--	8.6	--
SEP 20...	460	K70	K40	32	12	16	3.4	58	22	.90	8.9	268

DATE	SOLIDS, NON-VOLA-TILE, SUS-PENDED (MG/L) (00540)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT 19...	--	<.010	.14	--	.030	--	1.20	--	--	1.00	--	370
NOV 30...	--	--	--	.84	--	<.010	1.60	4.9	1.20	--	1.10	--
FEB 28...	6	--	--	.53	--	.170	1.10	3.4	.790	--	.790	--
MAR 14...	--	.020	.75	--	.120	--	.880	--	--	.830	--	--
MAY 22...	--	.020	.27	--	.050	--	1.50	--	--	1.40	--	150
23...	--	--	--	.24	--	.130	1.30	--	1.20	--	1.20	--
JUL 10...	--	.010	.28	--	.010	--	1.40	--	--	.910	--	--
SEP 20...	--	--	--	1.1	--	.190	1.50	--	1.40	--	1.40	--

NATIONAL STREAM-QUALITY
ACCOUNTING NETWORK DATA

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT											
19...	--	1	--	--	--	1	--	--	--	7	510
NOV											
30...	30	--	4	41	<.5	--	<1	<1	<3	2	--
FEB											
28...	80	--	1	11	<.5	--	<1	<1	<3	1	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	--	1	--	--	--	1	--	--	--	1	170
23...	180	--	1	23	<.0	--	<1	<1	<3	1	--
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	50	--	1	18	<.0	--	<1	1	<3	1	--

DATE	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT											
19...	310	200	2	1	1	--	20	<10	<.1	--	--
NOV											
30...	--	81	--	--	5	4	--	4	--	.2	<10
FEB											
28...	--	210	--	--	2	<4	--	9	--	<.1	<10
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	--	20	2	--	2	--	20	20	.1	--	--
23...	--	30	--	--	2	5	--	13	--	.1	<10
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	--	150	--	--	2	7	--	9	--	.4	<10

DATE	NICKEL, TOTAL RECOV-ERABLE (UC/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT											
19...	<1	--	--	--	520	--	20	23	--	--	41
NOV											
30...	--	1	<1	<1	570	<6	5	--	30	57	63
FEB											
28...	--	<1	<1	<1	340	<6	47	--	55	18	35
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	3	--	--	--	970	--	<10	11	--	--	65
23...	--	1	<1	<1	2000	<6	5	--	17	53	75
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	--	3	<1	<1	710	<6	7	--	6	67	67

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL

LOCATION.--Lat 27°09'59", long 81°52'47", in SE¼ sec.14, T.38 S., R.24 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 0.5 mi north of Nocatee, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--132 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

REVISED RECORDS.--WSP 1334: 1952(M). WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.94 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years, 106 ft³/s, 10.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,670 ft³/s Oct. 10, 1953; maximum gage height, 19.05 ft Sept. 22, 1962; no flow Nov. 18-20, 22-24, 1953, May 3-12, 14, 15, 1959; minimum gage height, 3.58 ft May 5, 10, 11, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1948 reached a stage of 17.7 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft³/s Mar. 13, gage height, 17.53 ft, no other peak above base of 1,000 ft³/s; minimum, 3.8 ft³/s June 12, gage height, 4.20 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	17	16	208	19	363	38	12	16	19	217	29
2	99	16	15	175	19	271	34	12	13	28	300	34
3	92	15	14	142	19	201	33	11	11	26	266	26
4	90	15	14	118	22	152	39	9.9	8.5	118	178	21
5	79	14	13	95	21	117	57	9.6	7.2	99	127	24
6	66	13	12	80	21	94	53	9.6	7.0	69	104	21
7	54	15	12	70	20	84	43	12	6.1	51	100	25
8	45	38	11	61	22	77	36	11	5.5	60	81	28
9	41	49	11	53	23	64	47	65	5.7	96	62	27
10	36	43	10	51	19	53	236	57	4.9	61	50	23
11	33	37	10	56	17	45	216	36	4.6	59	42	18
12	30	33	121	54	16	224	123	26	4.4	70	37	16
13	28	29	134	48	18	2880	79	19	4.7	65	32	15
14	30	25	101	44	81	2790	57	16	6.3	201	36	14
15	48	22	128	39	66	1570	57	14	6.7	161	33	12
16	106	22	155	37	49	888	104	11	7.0	145	29	11
17	127	22	139	38	40	507	84	9.9	15	213	25	10
18	136	20	174	35	33	340	73	9.8	44	222	22	12
19	129	19	311	33	28	252	54	9.0	31	138	19	20
20	104	20	335	33	26	197	42	8.1	22	99	17	22
21	83	36	242	35	24	151	35	7.3	18	83	36	20
22	66	38	190	34	63	112	51	12	15	82	80	19
23	53	34	157	32	302	113	50	38	14	113	55	17
24	45	30	134	30	324	175	39	26	16	260	72	14
25	42	28	108	30	253	139	30	20	23	300	189	11
26	37	25	94	28	176	109	25	16	18	306	127	9.8
27	31	23	92	27	157	92	20	14	16	362	84	9.4
28	26	20	81	27	405	77	17	14	13	298	66	12
29	24	18	87	25	435	63	15	17	18	204	53	11
30	21	16	222	22	---	50	13	19	27	142	40	11
31	19	---	217	20	---	43	---	20	---	186	34	---
TOTAL	1945	752	3360	1780	2718	12293	1800	571.2	408.6	4336	2613	542.2
MEAN	62.7	25.1	108	57.4	93.7	397	60.0	18.4	13.6	140	84.3	18.1
MAX	136	49	335	208	435	2880	236	65	44	362	300	34
MIN	19	13	10	20	16	43	13	7.3	4.4	19	17	9.4
CFSM	.48	.19	.82	.44	.71	3.01	.46	.14	.10	1.06	.64	.14
IN.	.55	.21	.95	.50	.77	3.46	.51	.16	.12	1.22	.74	.15

CAL YR 1983 TOTAL 50081.4 MEAN 137 MAX 1700 MIN 5.0 CFSM 1.04 IN 14.11
WTR YR 1984 TOTAL 33119.0 MEAN 90.5 MAX 2880 MIN 4.4 CFSM .69 IN 9.33

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT										
05...	1055	5.92	80	245	257	7.0	25.0	6.4	--	--
DEC										
15...	1130	6.64	124	272	278	6.2	19.0	6.9	--	--
FEB										
15...	1620	5.54	64	365	370	6.3	23.0	7.6	--	--
MAR										
13...	1825	17.52	3870	--	143	--	--	--	--	--
14...	1201	16.36	2770	--	106	--	--	--	--	--
28...	0958	6.11	81	300	298	7.1	24.0	6.3	--	--
JUN										
06...	1615	4.37	7.1	431	438	7.0	27.5	4.8	--	--
JUL										
11...	1610	5.72	59	398	380	--	27.0	6.2	2.6	62
AUG										
14...	0900	5.05	36	410	388	7.3	25.5	5.9	--	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT									
05...	27	--	.030	.38	.050	1.2	.400	.300	--
DEC									
15...	31	--	.010	.34	.070	1.0	.330	.290	--
FEB									
15...	43	--	<.010	.32	.040	1.6	.390	.320	--
MAR									
13...	--	1.7	.020	.49	.150	.95	.470	.450	--
14...	--	2.1	.020	.38	.080	.73	.430	.400	--
28...	35	--	.010	.50	.040	.94	.420	.360	--
JUN									
06...	45	--	.010	.16	.040	.56	.310	.270	--
JUL									
11...	40	7.3	.010	.72	.050	.93	.320	.250	76
AUG									
14...	43	--	.010	.36	.050	.97	.360	.300	--

PEACE RIVER BASIN

02297155 HORSE CREEK NEAR MYAKKA HEAD, FL

LOCATION.--Lat 27°29'13", long 82°01'25", in SE¼ sec.29, T.34 S., R.23 E., Hardee County, Hydrologic Unit 03100101, near right bank on downstream side of bridge on State Highway 64, 3.5 mi northeast of Myakka Head, and 39.5 mi upstream from mouth.

DRAINAGE AREA.--42 mi^2, revised.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.12 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 30.6 ft^3/s, 9.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft^3/s June 18, 1982, gage height, 22.70 ft; no flow for many days in 1981; minimum gage height, 8.69 ft May 22, June 10, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 352 ft^3/s Dec. 30, gage height, 15.23 ft; minimum, 0.03 ft^3/s May 22, June 10, gage height, 8.69 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	5.9	21	139	11	17	6.1	2.1	.71	.16	32	7.2
2	29	5.3	19	101	9.9	15	5.4	1.7	.41	.14	20	9.6
3	25	4.9	17	78	9.7	14	4.8	1.4	.29	.14	18	7.1
4	23	4.6	14	64	10	12	5.3	1.1	.20	.46	25	5.4
5	20	4.3	13	52	9.6	11	6.4	.79	.14	1.6	19	5.1
6	17	4.3	11	44	8.4	9.1	5.8	.62	.10	3.0	33	6.0
7	15	5.3	12	38	7.2	8.6	4.8	.49	.08	1.8	29	5.0
8	13	13	9.5	34	6.6	7.6	4.3	.32	.06	3.1	27	3.8
9	12	13	8.0	29	6.9	6.5	4.4	.47	.05	22	24	3.4
10	11	11	7.1	28	7.0	5.8	6.9	.38	.04	8.3	22	3.1
11	9.8	10	6.5	35	6.8	5.1	5.9	.29	.04	4.7	19	2.7
12	9.1	8.7	11	34	6.7	5.4	4.9	.25	.05	3.4	17	2.2
13	8.7	7.5	12	33	8.7	59	4.2	.18	.05	3.6	26	1.8
14	8.9	6.8	10	31	14	46	3.8	.15	.06	3.0	20	1.3
15	10	6.0	84	28	13	32	6.8	.13	.07	3.1	19	1.0
16	19	5.9	84	26	13	23	15	.11	.08	7.5	17	.83
17	27	5.3	73	25	11	18	15	.10	.23	6.1	15	.81
18	22	4.6	59	23	9.4	15	13	.07	.45	4.4	13	.79
19	18	4.1	50	24	8.5	13	10	.06	4.5	3.2	11	.95
20	14	5.4	43	24	8.1	11	7.9	.05	3.7	3.4	9.5	1.2
21	13	15	39	24	7.8	16	6.6	.04	2.1	4.1	12	1.0
22	12	12	35	22	19	11	7.4	.05	.99	3.7	13	.94
23	13	11	31	21	25	28	6.6	.11	.71	3.0	12	.82
24	12	9.6	28	19	22	43	6.0	.11	1.5	2.9	28	.63
25	13	9.7	24	19	19	29	4.8	.10	.82	3.5	29	.42
26	12	8.1	20	19	16	23	3.9	.11	.56	7.7	24	.25
27	11	7.1	18	19	15	18	3.2	.19	.45	8.9	20	.25
28	9.1	6.5	17	18	23	14	3.0	.32	.26	9.4	16	2.1
29	7.9	6.2	78	15	20	11	2.7	.41	.19	9.3	13	3.4
30	7.0	8.2	263	13	---	8.8	2.5	.53	.17	10	10	3.1
31	6.3	---	180	12	---	7.2	---	.88	---	20	8.4	---
TOTAL	460.8	229.3	1297.1	1091	352.3	543.1	187.4	13.61	19.06	165.60	600.9	82.19
MEAN	14.9	7.64	41.8	35.2	12.1	17.5	6.25	.44	.64	5.34	19.4	2.74
MAX	33	15	263	139	25	59	15	2.1	4.5	22	33	9.6
MIN	6.3	4.1	6.5	12	6.6	5.1	2.5	.04	.04	.14	8.4	.25
CFSM	.36	.19	1.02	.86	.30	.43	.15	.01	.02	.13	.47	.07
IN.	.42	.21	1.18	.99	.32	.49	.17	.01	.02	.15	.55	.07

CAL YR 1983 TOTAL 17854.09 MEAN 48.9 MAX 452 MIN .89 CFSM 1.19 IN 16.20
WTR YR 1984 TOTAL 5042.36 MEAN 13.8 MAX 263 MIN .04 CFSM .34 IN 4.57

PEACE RIVER BASIN

02297310 HORSE CREEK NEAR ARCADIA, FL

LOCATION.--Lat 27°11'57", long 81°59'19", in NW¼ sec.2, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 72, 7.9 mi west of Arcadia, and 10 mi upstream from mouth.

DRAINAGE AREA.--218 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.96 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years, 195 ft³/s, 12.15 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s Aug. 1, 1960, gage height, 17.94 ft; no flow June 7-9, 15, 25-30, July 2, Aug. 7, 1956, Feb. 16-18, 1957, May 2-6, 1975; minimum gage height, 0.54 ft June 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 13	1800	*1,100	*11.05	July 22	2000	972	10.44
July 6	1200	982	10.49				

Minimum discharge, 5.7 ft³/s June 12, 13, 14, 15, gage height, 1.22 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	45	60	290	61	274	74	23	21	33	568	74
2	314	43	62	263	56	197	64	21	16	29	616	60
3	244	40	59	284	54	157	55	20	12	115	420	49
4	203	36	54	318	55	131	62	18	10	337	298	42
5	170	34	50	337	52	111	110	16	9.0	263	250	36
6	144	33	47	324	49	96	103	14	8.1	921	551	32
7	122	37	46	292	46	84	79	14	7.3	518	409	30
8	105	81	45	254	44	73	60	13	6.7	271	267	27
9	107	97	43	219	44	63	73	58	6.3	631	203	23
10	95	91	40	196	42	56	129	52	6.0	510	157	21
11	89	79	39	189	39	52	94	33	5.9	270	124	18
12	83	69	187	171	36	104	75	23	5.8	283	106	16
13	83	62	204	157	37	953	60	17	5.7	257	103	15
14	87	56	163	147	47	951	51	14	5.7	295	260	13
15	126	51	239	136	45	654	49	12	6.2	210	285	12
16	204	75	325	127	40	397	60	11	6.5	172	198	11
17	264	70	351	120	36	278	60	10	33	143	138	11
18	212	54	528	115	34	225	56	9.4	62	112	105	12
19	156	47	435	124	32	192	48	8.6	44	89	85	22
20	121	49	398	123	31	164	43	7.8	32	121	73	21
21	101	94	360	119	32	141	39	7.6	114	268	63	17
22	88	90	328	112	108	118	174	49	47	846	60	14
23	79	75	299	105	220	130	103	110	27	750	97	12
24	72	66	269	99	149	190	75	34	124	439	171	11
25	69	61	232	94	112	185	56	22	220	346	177	9.6
26	71	59	201	89	93	161	46	32	81	296	130	8.8
27	67	56	177	84	126	138	40	27	67	372	100	8.5
28	60	52	160	81	457	124	34	30	57	276	328	9.6
29	55	50	168	75	402	113	30	33	51	190	198	10
30	51	51	335	70	---	101	26	35	48	142	124	12
31	47	---	343	65	---	87	---	30	---	222	93	---
TOTAL	3997	1803	6246	5179	2579	6700	2028	804.4	1145.2	9727	6757	657.5
MEAN	129	60.1	201	167	88.9	216	67.6	25.9	38.2	314	218	21.9
MAX	314	97	528	337	457	953	174	110	220	921	616	74
MIN	47	33	39	65	31	52	26	7.6	5.7	29	60	8.5
CFSM	.59	.28	.92	.77	.41	.99	.31	.12	.18	1.44	1.00	.10
IN.	.68	.31	1.07	.88	.44	1.14	.35	.14	.20	1.66	1.15	.11

CAL YR 1983 TOTAL 98567.5 MEAN 270 MAX 1810 MIN 4.8 CFSM 1.24 IN 16.82
WTR YR 1984 TOTAL 47623.1 MEAN 130 MAX 953 MIN 5.7 CFSM .60 IN 8.13

PEACE RIVER BASIN

02297310 HORSE CREEK NEAR ARCADIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT											
03...	1340	5.42	252	110	--	6.7	--	26.5	6.3	--	--
18...	1500	4.98	205	178	172	7.4	7.2	25.5	6.6	15	5.7
DEC											
13...	1310	4.93	217	155	--	6.9	--	19.0	7.4	--	--
FEB											
14...	1305	2.50	48	253	--	5.7	--	19.5	7.8	--	--
MAR											
14...	1056	10.32	952	--	160	--	--	--	--	--	--
26...	1210	4.46	156	202	--	6.9	--	22.5	7.8	--	--
MAY											
22...	1345	1.33	3.5	470	--	6.9	--	27.5	7.2	--	--
JUN											
05...	1100	1.41	9.6	397	--	7.2	--	25.0	6.6	--	--
AUG											
13...	1310	3.56	89	154	--	6.7	--	27.5	5.9	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
03...	--	--	--	--	--	--	--	.010	.14	.020	1.2
18...	7.2	2.2	28	16	.40	6.9	144	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	.010	.14	.030	.88
FEB											
14...	--	--	--	--	--	--	--	.010	.30	.040	.73
MAR											
14...	--	--	--	--	--	3.0	--	.010	.15	.060	.67
26...	--	--	--	--	--	--	--	.010	.14	.040	.90
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	.010	.28	.050	.48
AUG											
13...	--	--	--	--	--	--	--	.010	.26	.040	1.1

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)
OCT										
03...	.460	.380	--	--	--	--	--	--	--	--
18...	--	--	2	<1	7	1500	1200	320	2	1
DEC										
13...	.450	.360	--	--	--	--	--	--	--	--
FEB										
14...	.470	.430	--	--	--	--	--	--	--	--
MAR										
14...	.490	.450	--	--	--	--	--	--	--	--
26...	.460	.410	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	.620	.560	--	--	--	--	--	--	--	--
AUG										
13...	.550	.500	--	--	--	--	--	--	--	--

PEACE RIVER BASIN

02297310 HORSE CREEK NEAR ARCADIA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT										
18...	1	30	20	10	<.1	1	270	20	26	24
MAY										
22...	--	--	--	--	--	--	--	--	11	--

PEACE RIVER BASIN

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL

LOCATION.--Lat 27°03'06", long 81°47'05", in SE¼ sec.26, T.39 S., R.25 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 31, 0.4 mi downstream from Myrtle Slough, and 10.6 mi east of Fort Ogden.

DRAINAGE AREA.--233 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968; October 1969 to September 1977 (gage heights and discharge measurements only); October 1977 to current year.

REVISED RECORDS.--W 1983: 1982 (M and daily).

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years (water years 1964-68, 1978-84), 204 ft^3/s, 11.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1963-84: Maximum gage height, 14.19 ft Oct. 1, 1979; minimum, 2.70 ft May 27, 28, 1964.
1963-68, 1977-84: Maximum discharge, 5,400 ft^3/s June 25, 1982; no flow June 3-7, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,810 ft^3/s Mar. 14, gage height, 12.84 ft; minimum, 7.6 ft^3/s June 14, gage height, 3.42 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	67	54	154	47	165	163	50	74	166	1070	323
2	442	84	50	155	48	157	153	47	64	249	1260	284
3	388	84	50	144	42	153	143	44	56	237	1180	234
4	355	76	44	131	44	147	149	40	48	354	1070	185
5	335	72	39	118	44	152	156	32	39	531	934	154
6	297	67	36	109	42	139	145	32	33	604	890	135
7	262	65	36	103	40	150	134	33	29	623	847	200
8	226	92	38	97	41	130	164	31	26	614	737	185
9	203	96	36	93	38	121	537	171	25	571	635	165
10	177	83	33	104	38	110	495	239	21	545	542	143
11	160	84	32	120	38	98	400	146	20	517	476	123
12	148	80	38	111	36	138	292	91	17	510	412	107
13	130	75	45	101	38	2120	273	69	14	495	340	102
14	128	71	46	94	46	3700	169	53	8.7	549	329	89
15	183	68	64	88	48	3230	164	44	12	633	283	78
16	565	92	74	84	51	2540	202	38	23	684	230	69
17	553	101	79	80	47	2010	185	33	31	698	193	66
18	463	94	133	79	44	1620	204	29	60	701	170	68
19	392	84	146	78	42	1390	164	28	105	713	173	82
20	310	86	142	77	40	1210	139	28	91	733	124	96
21	253	120	138	74	38	1070	126	29	82	770	121	84
22	213	104	137	72	46	935	131	29	144	857	182	154
23	188	95	143	68	100	933	131	32	154	1010	189	145
24	175	91	134	61	139	970	104	33	159	1110	300	106
25	160	86	116	58	157	909	78	40	195	1120	374	89
26	146	81	87	56	163	845	77	42	213	1220	417	89
27	130	72	75	61	180	774	78	42	204	1330	455	99
28	121	67	80	61	184	683	72	42	191	1310	486	85
29	104	64	97	57	166	547	66	49	181	1200	454	83
30	90	59	153	54	---	370	54	79	174	1080	408	80
31	78	---	166	51	---	239	---	80	---	1070	415	---
TOTAL	7872	2460	2541	2793	2027	27755	5348	1775	2493.7	22804	15696	3902
MEAN	254	82.0	82.0	90.1	69.9	895	178	57.3	83.1	736	506	130
MAX	565	120	166	155	184	3700	537	239	213	1330	1260	323
MIN	78	59	32	51	36	98	54	28	8.7	166	121	66
CFSM	1.09	.35	.35	.39	.30	3.84	.76	.25	.36	3.16	2.17	.56
IN.	1.26	.39	.41	.45	.32	4.43	.85	.28	.40	3.64	2.51	.62

CAL YR 1983 TOTAL 117092.38 MEAN 321 MAX 1920 MIN .77 CFSM 1.38 IN 18.69
WTR YR 1984 TOTAL 97466.70 MEAN 266 MAX 3700 MIN 8.7 CFSM 1.14 IN 15.56

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1956 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
04...	1045	8.46	347	205	6.9	27.0	4.9
DEC							
14...	0910	4.24	44	375	7.8	19.0	9.3
FEB							
15...	1810	4.36	50	703	6.4	26.0	7.7
MAR							
28...	1350	9.30	682	238	7.0	28.0	5.1
JUN							
05...	1940	4.18	36	425	8.4	30.5	7.1
AUG							
15...	1120	8.17	295	256	6.5	30.5	4.6

PEACE RIVER BASIN

02298202 SHELL CREEK NEAR PUNTA GORDA, FL

LOCATION.--Lat 26°59'04", long 81°56'09", in NW¼ sec.20, T.40 S., R.24 E., Charlotte County, Hydrologic Unit 03100101, near left bank 60 ft upstream from dam, 1.0 mi upstream from Myrtle Slough, 6.0 mi upstream from mouth, and 7.7 mi northeast of Punta Gorda.

DRAINAGE AREA.--373 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records poor. Flow regulated by concrete dam. Aquatic growth accumulated on dam and restricted flow for many days. Capacity of reservoir insufficient to affect monthly figures of runoff. Diversion by city of Punta Gorda for water supply shown in monthly table.

AVERAGE DISCHARGE.--19 years, 348 ft^3/s, 12.67 in/yr, adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,110 ft^3/s June 28, 1974, gage height, 7.30 ft; no flow at times most years; minimum daily gage height, 2.51 ft (estimated) Jan. 1, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft^3/s Mar. 15, gage height, 6.94 ft; minimum, 23 ft^3/s June 13, gage height, 5.07 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	159	197	280	76	265	342	119	142	187	1370	467
2	544	150	175	241	73	239	286	109	124	218	1360	379
3	463	150	163	228	80	214	279	103	100	239	1460	344
4	398	148	127	195	88	191	260	90	88	326	1410	362
5	367	136	117	173	85	181	272	86	72	456	1290	251
6	352	121	113	159	80	172	289	83	52	593	1170	218
7	333	129	111	135	76	167	270	89	47	583	1190	280
8	308	201	104	113	72	166	245	95	42	730	1140	286
9	277	236	105	104	64	155	312	299	39	887	976	255
10	238	226	93	107	57	147	891	463	36	625	833	212
11	227	200	87	123	54	137	821	391	44	492	733	186
12	236	184	114	143	55	380	630	262	42	447	653	170
13	232	174	117	135	64	3940	486	182	40	579	592	161
14	212	152	111	113	65	4270	411	151	69	1100	612	153
15	391	144	131	100	69	4580	336	133	89	868	553	141
16	2410	200	154	94	78	4110	361	121	119	827	474	149
17	2030	235	197	96	73	3420	380	94	215	896	411	219
18	1500	221	237	133	71	2780	370	76	359	872	391	198
19	1110	212	290	149	69	2230	343	70	391	844	359	397
20	851	247	289	130	67	1860	286	62	202	958	328	406
21	661	251	285	115	83	1560	238	81	131	1260	310	298
22	536	272	267	106	138	1320	262	143	118	1310	333	330
23	457	248	264	85	224	1200	259	142	139	1260	382	340
24	410	253	239	80	277	1270	231	109	144	1490	516	256
25	369	205	199	115	272	1280	200	79	182	1630	986	184
26	330	182	168	134	245	1150	176	116	203	1550	862	148
27	288	191	133	125	238	1010	168	121	330	1960	680	146
28	266	207	125	109	275	865	149	121	259	1770	610	155
29	238	193	136	90	288	690	141	109	183	1530	597	142
30	207	211	257	81	---	556	133	118	165	1370	548	164
31	172	---	309	78	---	420	---	153	---	1290	487	---
TOTAL	17026	5838	5414	4069	3456	40925	9827	4370	4166	29147	23616	7397
MEAN	549	195	175	131	119	1320	328	141	139	940	762	247
MAX	2410	272	309	280	288	4580	891	463	391	1960	1460	467
MIN	172	121	87	78	54	137	133	62	36	187	310	141
(†)	+3.8	+3.7	+3.7	+3.9	+4.1	+4.5	+4.4	+5.0	+4.2	+3.0	+3.3	+3.9
ADJUSTED FOR DIVERSION BY CITY OF PUNTA GORDA												
MEAN	553	199	179	135	123	1324	332	146	143	943	765	251
CFSM	1.48	.53	.48	.36	.33	3.55	.89	.39	.38	2.53	2.05	.67
IN	1.71	.60	.55	.42	.36	4.09	.99	.45	.43	2.91	2.36	.75

	OBSERVED								ADJUSTED					
CAL YR 1983	TOTAL	197560.2	MEAN	541	MAX	2750	MIN	3.2	MEAN	545	CFSM	1.46	IN	19.8
WTR YR 1984	TOTAL	155251	MEAN	424	MAX	4580	MIN	36	MEAN	428	CFSM	1.15	IN	15.6

† DIVERSION, IN CUBIC FEET PER SECOND, BY CITY OF PUNTA GORDA, FURNISHED BY CITY OF PUNTA GORDA WATER DEPARTMENT

PEACE RIVER BASIN

02298202 SHELL CREEK NEAR PUNTA GORDA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
OCT									
05...	1510	5.48	365	262	261	6.8	28.0	2.0	--
DEC									
15...	1455	5.20	143	580	580	6.0	20.0	6.4	--
FEB									
16...	1430	5.14	81	697	750	7.6	22.0	5.8	--
MAR									
13...	1930	6.87	4380	--	129	--	--	--	--
14...	1000	6.81	4170	--	126	--	--	--	--
28...	1754	5.64	820	278	280	7.2	26.0	5.3	--
JUN									
06...	1945	5.15	50	755	775	7.4	29.0	5.7	--
JUL									
10...	1622	5.56	625	255	253	--	29.0	.7	1.4
11...	1700	5.50	492	252	248	--	27.5	.2	--
AUG									
15...	1500	5.48	544	310	306	6.7	30.0	1.2	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT									
05...	--	34	--	.010	.06	.050	1.1	.130	.110
DEC									
15...	--	92	--	<.010	.08	.060	.79	.080	.080
FEB									
16...	--	100	--	<.010	.02	.020	1.1	.070	.050
MAR									
13...	--	--	1.3	.010	.08	.040	.47	.330	.250
14...	--	--	1.3	.010	.09	.040	.47	.310	.250
28...	--	40	--	.010	.13	.040	1.3	.200	.140
JUN									
06...	--	130	--	<.010	<.02	.040	.99	.110	.080
JUL									
10...	26	32	4.7	.010	.02	.060	1.0	.160	.130
11...	--	29	4.7	.010	.02	.070	.85	.160	.140
AUG									
15...	--	41	--	.010	.09	.080	1.2	.180	.130

MYAKKA RIVER BASIN

02298608 MYAKKA RIVER AT MYAKKA CITY, FL

LOCATION.--Lat 27°20'36", long 82°09'25", in SE¼ sec.13, T.36 S., R.21 E., Manatee County, Hydrologic Unit 03100102, near left bank on downstream side of bridge on State Highway 70, 0.3 mi southeast of Myakka City, and 56 mi upstream from mouth.

DRAINAGE AREA.--125 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1963 to September 1966; October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 24.45 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1966, at site 1,100 ft upstream at datum 0.64 ft lower.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years (water years 1964-66, 1978-84), 127 ft³/s, 13.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft³/s June 19, 1982; maximum gage height, 14.48 ft Sept. 23, 1963, present datum; no flow for many days in some years; minimum gage height, 2.42 ft May 25, 26, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 21, 1962, reached a stage of 17.2 ft, present datum, from information by local resident, discharge, 7,190 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 679 ft³/s Dec. 17, gage height, 10.16 ft; minimum, 1.1 ft³/s Sept. 26, 27; minimum gage height, 2.90 ft June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	33	61	475	44	82	64	15	22	9.0	24	17
2	111	30	60	437	41	73	52	13	16	7.7	33	15
3	94	28	54	361	40	69	44	12	12	25	43	13
4	80	26	50	294	44	62	54	11	8.8	19	46	10
5	70	24	46	243	43	54	98	9.4	7.0	23	47	9.1
6	62	23	43	204	41	48	74	8.3	5.5	159	46	8.3
7	55	25	47	171	38	45	50	12	4.7	67	44	8.0
8	49	59	41	144	36	40	40	11	3.9	27	40	6.5
9	49	92	37	121	35	37	37	16	3.3	46	35	5.3
10	50	105	35	116	35	35	47	21	2.8	26	30	4.5
11	54	105	33	124	34	33	42	18	2.3	18	29	3.5
12	49	94	93	115	33	32	37	16	2.0	18	30	3.0
13	46	80	142	110	34	141	32	14	2.2	22	33	2.6
14	47	66	123	111	38	250	29	12	4.4	19	53	2.3
15	76	55	342	109	37	258	32	9.8	4.6	14	61	2.0
16	251	47	600	104	37	239	39	8.1	6.6	14	39	1.9
17	187	41	667	99	36	193	38	6.8	5.3	28	27	2.8
18	166	37	612	93	35	147	37	5.6	9.8	24	22	3.9
19	153	33	538	90	35	114	36	4.9	74	19	22	6.2
20	126	34	443	85	34	90	35	4.3	46	23	22	7.4
21	106	58	364	81	34	81	33	3.7	33	23	22	6.7
22	91	59	303	77	52	72	43	3.6	43	17	46	5.9
23	79	56	258	75	81	100	42	5.1	30	16	56	4.0
24	73	56	221	74	82	179	39	4.8	32	15	61	2.7
25	89	62	184	71	76	206	33	5.8	32	14	58	2.0
26	92	58	152	66	70	224	28	85	25	18	45	1.4
27	73	53	128	62	65	200	24	103	34	49	37	1.7
28	56	48	113	58	100	164	20	91	29	47	31	3.9
29	48	45	120	52	99	133	17	60	19	37	26	6.1
30	41	45	225	49	---	102	15	43	13	28	22	4.9
31	37	---	353	46	---	80	---	31	---	23	20	---
TOTAL	2678	1577	6488	4317	1409	3583	1211	664.2	533.2	894.7	1150	171.6
MEAN	86.4	52.6	209	139	48.6	116	40.4	21.4	17.8	28.9	37.1	5.72
MAX	251	105	667	475	100	258	98	103	74	159	61	17
MIN	37	23	33	46	33	32	15	3.6	2.0	7.7	20	1.4
CFSM	.69	.42	1.67	1.11	.39	.93	.32	.17	.14	.23	.30	.05
IN.	.80	.47	1.93	1.28	.42	1.07	.36	.20	.16	.27	.34	.05

CAL YR 1983 TOTAL 70494.8 MEAN 193 MAX 1000 MIN 2.8 CFSM 1.54 IN 20.98
WTR YR 1984 TOTAL 24676.7 MEAN 67.4 MAX 667 MIN 1.4 CFSM .54 IN 7.34

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298608 MYAKKA RIVER AT MYAKKA CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-66, 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
14...	1245	4.92	56	160	6.6	25.5	5.3
DEC							
09...	1200	4.64	40	150	7.6	16.5	8.3
FEB							
15...	1530	4.62	38	200	6.7	19.0	8.0
APR							
11...	1615	4.75	43	240	7.9	22.0	7.1
JUN							
06...	1130	3.31	5.8	270	6.3	26.5	6.9
AUG							
20...	1115	4.17	23	150	7.8	27.5	5.8

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS

02298709 HOWARD CREEK TRIBUTARY NEAR SARASOTA, FL

LOCATION.--Lat 27°17'10", long 82°18'28", in SE¼ sec.4, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100201, on right bank, 1.3 mi above mouth, 3.3 mi south of State Highway 780, and 14.1 mi east of Sarasota.

DRAINAGE AREA.--6.92 mi².

PERIOD OF RECORD.--October 1983 to September 1984 (gage heights and discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.55 ft Dec. 15; minimum, 10.10 ft (estimated) June 26.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)
JAN			JUN		
19...	1550	3.7	08...	1240	.05
MAR			AUG		
01...	1401	2.7	17...	1345	7.1
APR			SEP		
20...	1120	1.4	20...	1030	5.5
MAY					
09...	1140	.14			

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1963 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.92	11.20	13.40	10.57	10.54	10.49	10.36	10.28	10.35	13.25	10.65
2	---	10.88	11.21	12.75	10.54	10.50	10.46	10.35	10.27	10.45	13.32	10.60
3	---	10.84	11.19	12.10	10.53	10.46	10.43	10.34	10.26	10.55	12.85	10.61
4	---	10.82	11.17	11.80	10.55	10.44	10.52	10.33	10.27	10.52	12.83	10.58
5	---	10.82	11.15	11.55	10.56	10.43	10.71	10.32	10.27	10.60	12.98	10.76
6	---	10.83	11.12	11.30	10.54	10.41	10.65	10.31	10.27	10.60	12.75	10.79
7	---	10.90	11.11	11.15	10.52	10.39	10.57	10.30	10.28	10.55	12.82	10.73
8	---	11.49	11.10	11.12	10.49	10.38	10.52	10.29	10.28	10.46	12.95	10.66
9	---	11.88	11.09	11.10	10.47	10.37	10.59	10.28	10.28	10.63	12.38	10.60
10	---	11.62	11.07	11.15	10.47	10.37	10.82	10.27	10.29	10.84	11.90	10.58
11	---	11.44	11.06	11.40	10.47	10.37	10.70	10.26	10.30	10.82	11.72	10.55
12	---	11.30	12.82	11.35	10.46	10.40	10.62	10.25	10.29	10.80	11.60	10.52
13	---	11.18	12.99	11.30	10.47	11.58	10.56	10.24	10.28	10.85	11.45	10.50
14	---	11.10	12.55	11.10	10.50	11.43	10.51	10.23	10.26	10.90	12.08	10.48
15	---	11.04	14.09	11.00	10.49	11.12	10.50	10.22	10.25	11.13	11.80	10.47
16	---	11.00	13.88	10.90	10.47	10.89	10.54	10.21	10.23	11.42	11.50	10.47
17	---	10.96	13.47	10.85	10.47	10.73	10.54	10.20	10.22	11.38	11.30	10.59
18	---	10.93	13.51	10.78	10.45	10.63	10.53	10.19	10.21	11.32	11.17	10.68
19	---	10.91	12.97	10.77	10.44	10.55	10.49	10.18	10.20	11.28	11.01	11.22
20	10.99	10.97	12.48	10.76	10.42	10.50	10.46	10.19	10.20	11.24	10.89	11.53
21	10.97	11.27	12.11	10.73	10.41	10.48	10.43	10.19	10.19	11.35	10.91	11.39
22	11.31	11.27	11.86	10.70	10.51	10.46	10.41	10.21	10.18	11.50	11.10	11.17
23	13.55	11.17	11.67	10.68	10.64	11.00	10.40	10.22	10.16	12.57	11.04	11.00
24	12.75	11.12	11.49	10.67	10.58	11.56	10.39	10.23	10.14	12.54	11.82	10.89
25	12.52	11.14	11.3[illegible]	10.65	10.52	11.24	10.40	10.23	10.12	12.52	11.86	10.82
26	11.90	11.13	11.30	10.64	10.48	11.06	10.41	10.23	10.10	12.65	11.49	10.76
27	11.50	11.11	11.28	10.63	10.48	10.90	10.40	10.25	10.30	13.12	11.16	10.73
28	11.26	11.10	11.25	10.63	10.61	10.77	10.39	10.25	10.55	12.90	10.97	10.72
29	11.13	11.09	11.60	10.61	10.60	10.68	10.38	10.27	10.48	12.68	10.87	10.71
30	11.04	11.11	13.50	10.59	---	10.60	10.37	10.28	10.42	12.75	10.80	10.70
31	10.98	---	13.70	10.58	---	10.54	---	10.30	---	12.90	10.72	---
MEAN	---	11.11	12.01	11.12	10.51	10.70	10.51	10.26	10.26	11.42	11.78	10.75
MAX	---	11.88	14.09	13.40	10.64	11.58	10.82	10.36	10.55	13.12	13.32	11.53
MIN	---	10.82	11.06	10.58	10.41	10.37	10.37	10.18	10.10	10.35	10.72	10.47

NOTE.--No gage-height record Dec. 26 to Jan. 17, June 6, 7, June 13 to Aug. 16.

COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS

02298760 HOWARD CREEK NEAR SARASOTA, FL

LOCATION.--Lat 27°17'17", long 82°20'25", in SE¼ sec.6, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100201, on right bank, 3.2 mi above mouth, 3.4 mi south of State Highway 780, and 12.2 mi east of Sarasota.

DRAINAGE AREA.--20.0 mi^2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 377 ft^3/s Dec. 16, gage height, 15.92 ft; minimum, 0.20 ft^3/s June 25, 26, 27; minimum gage height, 10.58 ft June 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.5	8.5	70	2.0	7.4	4.8	1.6	1.3	.84	76	1.3
2	---	2.2	7.9	43	1.8	4.8	4.0	1.6	.94	2.0	61	1.3
3	---	1.5	6.7	29	1.9	3.6	3.5	1.5	.80	6.5	50	2.6
4	---	1.1	5.5	23	1.8	2.4	5.0	1.5	.76	6.0	45	1.8
5	---	.91	4.4	18	1.9	2.8	9.1	1.4	.77	7.5	52	9.4
6	---	.93	3.4	14	2.3	3.0	7.6	1.3	.82	7.7	42	6.0
7	---	2.0	3.1	11	2.1	2.3	5.8	1.2	.81	5.6	42	3.5
8	---	26	2.6	8.7	1.9	1.8	4.6	1.1	.79	5.0	49	2.4
9	---	49	2.1	7.0	1.6	1.7	8.4	1.3	.74	11	41	1.7
10	---	49	1.8	9.1	.99	2.0	14	3.1	.75	14	30	1.5
11	---	37	1.5	18	.74	2.2	13	3.0	.74	13	22	1.3
12	---	28	40	17	1.1	3.5	9.1	2.5	.77	13	17	1.0
13	---	22	53	17	1.9	51	6.6	2.0	1.0	14	14	.85
14	---	17	48	15	4.0	62	5.6	1.7	.79	15	26	.75
15	---	12	194	12	3.0	41	5.5	1.6	.64	18	19	.63
16	---	8.3	352	10	1.8	23	5.7	1.5	.59	19	11	.55
17	---	6.0	247	9.0	1.3	16	5.6	1.3	.51	19	6.8	.90
18	---	4.0	155	8.0	1.7	11	5.4	1.2	.51	18	3.9	1.2
19	19	2.9	89	8.8	1.7	6.5	4.8	.96	.49	18	3.2	9.3
20	17	3.5	60	8.8	1.9	4.6	4.2	.87	.43	18	2.5	19
21	12	17	43	8.5	1.7	4.0	3.8	.92	.37	20	4.8	27
22	8.4	17	34	6.4	4.2	3.1	3.4	1.2	.30	28	6.7	24
23	52	16	29	5.4	11	36	3.1	2.1	.26	42	4.6	22
24	53	13	24	4.8	8.6	69	3.0	3.1	.27	41	11	21
25	48	12	20	5.4	4.7	56	2.8	2.9	.22	39	16	20
26	38	11	16	5.2	4.3	38	2.5	2.8	.20	47	13	19
27	30	9.0	12	4.1	4.0	24	2.1	2.8	3.4	72	6.2	19
28	22	7.5	9.7	3.7	11	16	2.0	2.6	6.4	60	3.6	18
29	15	7.8	19	3.6	9.8	11	1.8	3.6	3.3	54	2.6	18
30	9.0	7.5	78	2.6	---	7.8	1.7	2.7	1.1	55	2.0	18
31	5.7	---	90	2.7	---	5.8	---	1.8	---	74	1.6	---
TOTAL	---	394.64	1660.2	408.8	96.73	523.3	158.5	58.75	30.77	763.14	685.5	272.98
MEAN	---	13.2	53.6	13.2	3.34	16.9	5.28	1.90	1.03	24.6	22.1	9.10
MAX	---	49	352	70	11	69	14	3.6	6.4	74	76	27
MIN	---	.91	1.5	2.6	.74	1.7	1.7	.87	.20	.84	1.6	.55
AC-FT	---	783	3290	811	192	1040	314	117	61	1510	1360	541

MYAKKA RIVER BASIN

02298830 MYAKKA RIVER NEAR SARASOTA, FL

LOCATION.--Lat 27°14'25", long 82°18'50", in SW¼ sec.21, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on right bank, 0.5 mi upstream from bridge on State Highway 72, 1.9 mi upstream from Lower Myakka Lake, 14 mi southeast of Sarasota, and 36 mi upstream from mouth.

DRAINAGE AREA.--229 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1936 to current year.

REVISED RECORDS.--WSP 1234: Drainage area. WDR FL-73-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.92 ft National Geodetic Vertical Datum of 1929 (National Park Service bench mark). Prior to Apr. 10, 1941, nonrecording gage at site 0.5 mi downstream at same datum; Apr. 10, 1941, to June 28, 1961, nonrecording gage at present site at same datum.

REMARKS.--Records poor. Records include flow from Vanderipe Slough at extreme high stages.

AVERAGE DISCHARGE.--48 years, 251 ft³/s, 14.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,670 ft³/s Aug. 1, 1960; maximum gage height, 11.60 ft Sept. 23, 1962; no flow for many days in some years; minimum gage height observed, -1.40 ft June 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 571 ft³/s Dec. 19, 20, gage height, 6.88 ft; minimum, 26 ft³/s May 21, 22, gage height, 3.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	455	165	130	329	128	109	222	58	77	67	151	131
2	410	156	130	349	122	112	204	54	79	75	153	128
3	373	147	129	369	117	112	187	49	78	77	149	125
4	340	139	127	371	114	111	178	45	77	82	148	121
5	311	130	126	370	111	107	172	41	76	87	145	122
6	284	124	124	361	106	102	166	38	75	83	143	117
7	260	121	122	345	101	99	164	35	74	81	145	114
8	242	124	118	322	98	96	159	32	73	82	147	109
9	225	126	115	302	94	90	162	34	70	85	150	104
10	210	132	112	284	89	86	175	33	67	90	151	100
11	198	141	108	270	86	82	171	32	65	95	157	97
12	189	149	123	255	83	81	163	32	64	101	163	94
13	182	154	135	244	81	118	154	31	63	108	158	91
14	178	155	149	236	81	146	144	31	63	121	152	88
15	178	154	187	225	80	172	135	31	62	121	147	86
16	179	154	265	215	79	197	128	31	60	122	146	83
17	182	148	382	207	77	217	122	30	59	123	144	86
18	191	143	496	199	76	226	115	29	60	122	141	82
19	198	137	560	195	74	224	109	28	58	122	137	82
20	202	133	568	190	73	212	103	27	57	123	134	81
21	203	135	544	186	71	203	97	27	56	121	135	79
22	200	133	506	181	75	191	91	28	56	121	138	77
23	206	132	469	174	77	194	87	33	58	121	143	75
24	212	130	429	167	80	212	84	34	60	124	151	73
25	216	133	393	162	84	238	81	34	62	128	150	70
26	213	131	355	158	89	257	78	36	62	130	149	68
27	208	130	326	152	91	263	74	36	64	135	149	66
28	199	128	298	149	97	257	70	39	65	137	147	64
29	191	128	287	144	103	254	66	48	66	139	144	63
30	183	129	292	139	---	250	62	63	66	141	140	61
31	174	---	309	133	---	238	---	73	---	143	136	---
TOTAL	7192	4141	8414	7383	2637	5256	3923	1172	1972	3407	4543	2737
MEAN	232	138	271	238	90.9	170	131	37.8	65.7	110	147	91.2
MAX	455	165	568	371	128	263	222	73	79	143	163	131
MIN	174	121	108	133	71	81	62	27	56	67	134	61
CFSM	1.01	.60	1.18	1.04	.40	.74	.57	.17	.29	.48	.64	.40
IN.	1.17	.67	1.37	1.20	.43	.85	.64	.19	.32	.55	.74	.44

CAL YR 1983 TOTAL 124200 MEAN 340 MAX 1290 MIN 10 CFSM 1.49 IN 20.18
WTR YR 1984 TOTAL 52777 MEAN 144 MAX 568 MIN 27 CFSM .63 IN 8.57

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02298830 MYAKKA RIVER NEAR SARASOTA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUC- TANCE (US/CM) (00095)	SPE- CIFIC CON- DUC- TANCE LAB (US/CM) (90095)	PH (STAND- ARD UNITS) (00400)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)
NOV											
30...	1400	--	4.64	--	31	203	219	6.3	6.4	19.5	1.4
JAN											
31...	1130	--	4.71	--	33	199	208	7.2	7.2	18.0	2.6
MAR											
20...	1230	--	5.29	--	95	285	276	7.0	6.9	24.0	2.7
MAY											
24...	1045	--	3.35	--	6.0	261	266	6.9	6.9	27.0	1.3
JUL											
31...	1130	--	5.48	--	145	193	193	5.9	6.8	27.5	.60
SEP											
20...	0940	1.00	--	7.00	--	145	--	5.8	--	24.5	--
20...	0941	1.00	--	14.0	--	142	--	5.8	--	25.0	--
20...	0942	1.00	--	21.0	--	143	--	5.6	--	25.0	--
20...	0943	1.00	--	28.0	--	142	--	5.6	--	25.0	--
20...	0944	1.00	--	35.0	--	142	--	5.5	--	25.0	--
20...	0945	1.00	--	42.0	--	141	--	5.4	--	25.0	--
20...	0946	1.00	--	49.0	--	142	--	5.3	--	25.0	--
20...	0947	1.00	--	56.0	--	141	--	5.4	--	25.0	--
20...	0948	1.00	--	63.0	--	143	--	5.6	--	25.0	--
20...	0949	1.00	--	70.0	--	142	--	5.6	--	25.0	--
20...	0950	1.00	--	77.0	--	142	--	5.6	--	25.0	--
20...	0951	1.00	--	84.0	--	142	--	5.6	--	25.0	--
20...	0952	1.00	--	91.0	--	143	--	5.6	--	25.0	--
20...	0953	1.00	--	98.0	--	144	--	5.6	--	25.0	--
20...	0954	1.00	--	105	--	144	--	5.5	--	25.0	--
20...	0955	1.00	--	112	--	143	--	5.5	--	25.0	--
20...	0956	1.00	--	119	--	143	--	5.5	--	25.0	--
20...	0957	1.00	--	126	--	142	--	5.4	--	25.0	--
20...	0958	1.00	--	137	--	143	--	5.6	--	25.0	--
20...	0959	1.00	--	140	--	143	--	5.6	--	25.0	--
20...	1020	--	5.16	--	78	143	148	5.5	6.7	25.0	.80

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV											
30...	8.0	K180	K27	K53	19	8.7	8.1	2.8	55	16	.30
JAN											
31...	8.3	K43	K10	K10	16	7.8	10	3.4	46	18	.30
MAR											
20...	7.2	1100	K23	K33	23	11	12	3.2	74	20	.20
MAY											
24...	4.9	700	K33	87	22	11	11	.90	67	16	.20
JUL											
31...	4.9	620	K33	K50	17	8.3	7.7	.60	33	14	.20
SEP											
20...	3.0	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	--	--	--	--	--	--	--	--	--
20...	1.9	--	--	--	--	--	--	--	--	--	--
20...	1.3	--	--	--	--	--	--	--	--	--	--
20...	2.9	--	--	--	--	--	--	--	--	--	--
20...	4.0	--	--	--	--	--	--	--	--	--	--
20...	3.6	--	--	--	--	--	--	--	--	--	--
20...	2.5	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	--	--	--	--	--	--	--	--	--
20...	1.9	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	--	--	--	--	--	--	--	--	--
20...	2.2	--	--	--	--	--	--	--	--	--	--
20...	1.9	--	--	--	--	--	--	--	--	--	--
20...	1.7	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	--	--	--	--	--	--	--	--	--
20...	1.9	--	--	--	--	--	--	--	--	--	--
20...	1.4	--	--	--	--	--	--	--	--	--	--
20...	1.3	--	--	--	--	--	--	--	--	--	--
20...	1.2	--	--	--	--	--	--	--	--	--	--
20...	2.0	340	K60	K10	14	5.9	7.2	.30	16	14	.30

NATIONAL STREAM-QUALITY
ACCOUNTING NETWORK DATA

02298830 MYAKKA RIVER NEAR SARASOTA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
NOV 30...	2.7	159	<.10	040	1.2	.260	.80	.280	.230	40	40
JAN 31...	1.0	156	.22	.190	1.6	.350	1.1	.330	.290	80	24
MAR 20...	1.7	210	<.10	.040	.90	.580	1.8	.540	.500	50	24
MAY 24...	1.1	220	<.10	.070	1.4	.450	--	.430	.410	--	--
JUL 31...	4.2	155	<.10	.020	.90	.460	--	.430	.440	40	16
SEP 20...	2.8	121	<.10	.060	1.0	.270	--	.260	.240	--	--

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
NOV 30...	<.5	3	<1	<1	<3	1	220	1	<4	4	.2
JAN 31...	<.5	2	<1	10	<3	1	190	2	<4	3	.1
MAR 20...	<.5	2	<1	9	<3	<1	200	1	<4	9	.2
MAY 24...	--	--	--	--	--	--	--	--	--	--	--
JUL 31...	1.0	2	<1	1	<3	<1	190	<1	<4	12	.1
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
NOV 30...	<10	<1	<1	<1	770	<6	6	--	18	22	30
JAN 31...	<10	4	<1	<1	560	<6	55	--	10	50	29
MAR 20...	<10	1	<1	<1	960	<6	10	--	8	50	28
MAY 24...	--	--	--	--	--	--	--	16	18	50	29
JUL 31...	<10	1	<1	<1	810	<6	17	--	6	50	41
SEP 20...	--	--	--	--	--	--	--	--	4	50	34

MYAKKA RIVER BASIN

02299160 DEER PRAIRIE SLOUGH NEAR NORTH PORT CHARLOTTE, FL

LOCATION.--Lat 27°06'51", long 82°15'50", in SW¼ sec.1, T.39 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, near right bank on upstream side of bridge, 1.0 mi north of Interstate 75, 4.5 mi northwest of North Port Charlotte, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--33.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 394 ft³/s Sept. 24, 1983, gage height, 18.49 ft (estimated); no flow for many days; slough dry at gage for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 176 ft³/s Mar. 13, gage height, 17.48 ft; minimum, 0.12 ft³/s June 11, 15, 16, gage height, 13.04 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	11	25	60	11	28	17	3.5	1.1	.20	64	3.1
2	75	10	23	55	9.8	21	15	3.2	.99	.33	64	2.8
3	87	9.3	21	50	9.4	17	14	2.9	.84	.33	35	2.5
4	95	8.5	19	46	9.3	14	15	2.6	.70	.65	32	2.4
5	84	7.8	18	42	8.7	13	17	2.5	.54	.44	34	2.2
6	73	7.3	[illegible]	39	8.3	11	15	2.4	.41	.48	21	2.0
7	63	9.8	16	36	7.9	10	14	2.3	.35	.62	21	1.7
8	54	19	14	33	7.2	9.3	13	2.2	.28	.66	15	1.5
9	48	21	13	31	6.7	8.5	50	2.6	.22	.98	11	1.4
10	42	19	12	31	6.4	7.7	73	2.4	.17	1.2	9.9	2.0
11	40	17	11	32	6.0	7.1	50	2.2	.19	1.7	11	1.6
12	35	16	102	30	6.0	17	39	2.1	.26	2.0	21	1.4
13	34	14	73	29	6.0	154	31	2.0	.16	1.4	20	1.3
14	41	13	59	27	6.0	140	26	1.9	.16	2.1	19	1.1
15	58	12	100	26	5.8	114	24	1.8	.14	1.5	16	.99
16	52	18	105	24	5.5	90	25	1.8	.30	1.4	12	1.1
17	57	15	99	23	5.3	70	22	1.6	3.2	1.3	10	2.5
18	66	14	112	21	5.1	55	20	1.4	6.5	1.7	8.4	2.2
19	57	14	109	24	5.0	43	17	1.3	2.5	1.6	7.2	2.2
20	49	17	105	26	4.8	34	13	1.2	1.6	1.5	6.6	2.4
21	42	27	96	25	4.7	29	11	1.1	1.2	1.4	13	2.4
22	37	26	87	23	15	24	9.6	1.5	.90	1.2	16	2.7
23	40	25	78	21	15	37	8.9	1.4	.69	1.3	11	2.3
24	35	23	72	19	11	44	7.9	1.1	.70	2.0	9.4	2.0
25	30	25	64	17	9.7	40	6.5	.93	.52	2.4	8.5	1.6
26	26	22	56	16	8.7	37	5.8	1.1	.42	11	7.3	1.4
27	22	20	50	15	24	34	5.3	1.2	.35	14	6.0	1.3
28	18	19	45	14	45	30	4.7	1.2	.26	6.3	4.9	1.2
29	16	20	48	13	34	26	4.2	1.5	.22	4.6	4.2	1.2
30	14	22	67	13	---	23	3.8	1.6	.19	23	3.8	1.3
31	12	---	64	11	---	20	---	1.4	---	49	3.7	---
TOTAL	1487	501.7	1780	872	307.3	1207.6	577.7	57.93	26.06	138.29	525.9	55.79
MEAN	48.0	16.7	57.4	28.1	10.6	39.0	19.3	1.87	.87	4.46	17.0	1.86
MAX	95	27	112	60	45	154	73	3.5	6.5	49	64	3.1
MIN	12	7.3	11	11	4.7	7.1	3.8	.93	.14	.20	3.7	.99
AC-FT	2950	995	3530	1730	610	2400	1150	115	52	274	1040	111

CAL YR 1983	TOTAL	19628.90	MEAN 53.8	MAX 354	MIN .06	AC-FT 38930
WTR YR 1984	TOTAL	7537.27	MEAN 20.6	MAX 154	MIN .14	AC-FT 14950

MYAKKA RIVER BASIN

02299160 DEER PRAIRIE SLOUGH NEAR NORTH PORT CHARLOTTE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SPECIFIC CONDUCTANCE LAB (US/CM) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT 06...	1050	16.01	76	80	--	5.8	--	27.0	--	4.7	--	--
DEC 13...	1100	16.02	72	60	--	5.4	--	19.0	--	6.6	--	--
FEB 15...	1021	13.52	6.1	120	--	6.0	--	19.0	--	7.5	--	--
APR 09...	0951	14.03	12	100	--	5.8	--	22.5	--	5.6	--	--
MAY 10...	0933	13.46	2.4	135	132	5.7	6.4	23.0	110	6.3	1.8	390
JUN 05...	1315	13.19	.54	180	--	7.9	--	32.0	--	14.2	--	--
SEP 18...	0920	13.52	2.2	180	184	5.9	6.8	25.5	120	4.1	1.4	1000

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
MAY 10...	77	K10	9.4	3.0	14	.50	8.0	25	.20	.9	54	<.010
SEP 18...	170	K43	26	2.9	8.5	.20	23	18	.20	3.2	143	.010

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)
MAY 10...	.02	1.20	1.3	.040	.020	90	<1	6	3	570	180	390
SEP 18...	.01	.040	1.6	.050	.020	50	<1	1	10	710	--	340

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L) (39250)
MAY 10...	100	0	200	<10	5	<.1	1	130	55	18	--	--
SEP 18...	4	--	1	<10	12	<.1	14	72	35	20	<.1	<.10

DATE	ALDRIN, TOTAL (UG/L) (39330)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIAZINON, TOTAL (UG/L) (39570)	DIELDRIN TOTAL (UG/L) (39380)	ENDOSULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)
SEP 18...	<.010	<.1	<.010	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.010	<.010

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02299160 DEER PRAIRIE SLOUGH NEAR NORTH PORT CHARLOTTE, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MIREX, TOTAL (UG/L) (39755)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)	PARA-THION, TOTAL (UG/L) (39540)	PER-THANE TOTAL (UG/L) (39034)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
MAY											
10...	--	--	--	--	--	--	--	--	--	--	19
SEP											
18...	<.01	<.010	<.01	<.01	<.01	<.01	<.01	<.1	<1	<.01	41

PHYTOPLANKTON ANALYSES

02299160 - DEER PRAIRIE SLOUGH NR NORTH PORT CHARLOTTE , FL

DATE	TIME	CHLORO PHYCEAE (96001)	ANKIS TRODES MUS (96202)	CRUCI GENIA (96240)	SCENE DESMUS (96243)	TETRA STRUM (96245)	STAURA STRUM (96327)	EUGLENA (96387)	PHACUS (96390)	CRYPTO PHYCEAE (96410)
MAY										
10...	0933	700	--	520	--	87	L1	87	--	1000
SEP										
18...	0920	--	260	65	260	--	--	--	16	--

DATE	CRYPTO PHYCEAE (96423)	CRYPTO MONAS (96430)	PERIDI NIUM (96487)	FRAGILA RIA (96764)	NAVI CULA (96791)	NITZ SCHIA (97952)	DACTYLO COCCOP SIS (98067)	A. CYANEA (98085)	ANA BAENA (98199)
MAY									
10...	--	350	22	--	--	L1	170	6300	--
SEP									
18...	260	65	--	16	260	130	--	330	16

MYAKKA RIVER BASIN

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°11'35", long 82°08'40", in SW¼ sec.6, T.38 S., R.22 E., Sarasota County, Hydrologic Unit 03100101, near center of span on upstream side of bridge on State Highway 72, 0.6 mi upstream from Mud Lake Slough, and 11 mi south of Myakka City.

DRAINAGE AREA.--36.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1962 to September 1966 (annual peak discharge); October 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.28 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1966, nonrecording gage at same site at datum 24.34 ft higher.

REMARKS.--Records fair. Prior to September 1966, flow included from Mud Lake Slough.

EXTREMES FOR PERIOD OF RECORD.--1962-66: Maximum discharge, 2,480 ft^3/s Sept. 21, 1962, gage height, 9.39 ft. 1981-84: Maximum discharge, 834 ft^3/s June 20, 1982, gage height, 31.10 ft; no flow for many days in 1981; minimum gage height, 24.31 ft May 22, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 323 ft^3/s Mar. 13, gage height, 29.34 ft; minimum, 0.20 ft^3/s June 13, gage height, 24.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	4.4	18	69	6.9	60	11	1.4	5.9	16	49	5.1
2	38	3.9	16	56	6.4	44	9.2	1.3	4.2	13	90	4.4
3	33	3.3	14	47	6.0	34	7.9	1.2	3.1	11	121	3.9
4	31	3.3	12	40	6.0	27	10	1.1	2.3	8.6	130	3.5
5	27	3.4	11	35	6.2	21	17	.99	1.7	7.9	118	2.9
6	23	3.4	9.7	30	5.8	17	16	.77	1.2	13	103	2.6
7	20	4.9	9.1	26	5.5	14	13	.64	.87	20	94	2.6
8	18	14	7.8	23	5.4	12	10	.58	.63	22	75	2.5
9	19	18	6.8	21	5.1	9.9	14	2.7	.50	19	53	2.1
10	20	17	6.3	21	4.6	8.7	25	2.2	.40	20	39	2.0
11	20	15	5.7	23	4.2	7.5	19	1.5	.35	19	30	1.8
12	20	14	87	22	4.0	16	14	1.2	.27	18	25	1.7
13	20	12	72	21	4.3	269	11	.82	.25	15	22	1.5
14	22	10	56	20	5.6	252	9.1	.62	.55	13	40	1.4
15	28	9.6	125	18	5.6	219	8.6	.55	.36	12	54	1.3
16	28	22	146	17	5.1	148	9.0	.48	.83	13	42	1.7
17	27	20	123	16	4.5	86	9.4	.39	1.5	12	31	2.7
18	25	15	149	15	4.2	54	8.4	.38	1.9	9.6	22	2.4
19	22	12	155	15	3.8	39	7.3	.35	5.0	8.0	15	3.6
20	20	13	135	16	3.6	30	6.2	.36	8.3	7.1	11	4.1
21	17	24	103	16	3.4	25	5.5	.37	7.8	12	11	3.9
22	15	23	85	15	14	20	5.1	.66	6.9	37	15	3.5
23	13	20	68	14	26	33	4.7	.94	5.4	62	17	2.9
24	11	17	56	13	20	56	4.2	.63	4.7	67	18	2.2
25	10	17	46	12	15	47	3.8	.62	7.9	58	20	1.7
26	9.4	15	39	11	12	39	3.3	1.2	12	51	23	1.4
27	8.0	14	34	10	41	31	2.7	9.8	12	49	22	1.4
28	6.9	12	30	9.7	144	25	2.5	14	19	44	17	1.4
29	6.1	12	45	9.2	94	20	2.0	15	24	36	12	1.5
30	5.4	14	113	8.4	---	16	1.7	12	21	29	8.4	1.7
31	4.8	---	89	7.4	---	13	---	8.7	---	32	6.4	---
TOTAL	611.6	386.2	1872.4	676.7	472.2	1693.1	270.6	83.45	160.81	754.2	1333.8	75.4
MEAN	19.7	12.9	60.4	21.8	16.3	54.6	9.02	2.69	5.36	24.3	43.0	2.51
MAX	44	24	155	69	144	269	25	15	24	67	130	5.1
MIN	4.8	3.3	5.7	7.4	3.4	7.5	1.7	.35	.25	7.1	6.4	1.3
AC-FT	1210	766	3710	1340	937	3360	537	166	319	1500	2650	150

CAL YR 1983 TOTAL 22350.30 MEAN 61.2 MAX 409 MIN .09 AC-FT 44330
WTR YR 1984 TOTAL 8390.46 MEAN 22.9 MAX 269 MIN .25 AC-FT 16640

MYAKKA RIVER BASIN

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1964-67, 1970, 1976, 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SPECIFIC CONDUCTANCE LAB (US/CM) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT 04...	1000	26.06	29	122	--	6.4	--	25.0	--	5.4	--	--
DEC 08...	1225	25.38	7.3	205	--	6.5	--	16.5	--	10.8	--	--
FEB 13...	1310	25.20	3.8	380	--	7.3	--	21.0	--	5.4	--	--
APR 05...	1029	25.66	17	180	--	6.1	--	20.0	--	6.6	--	--
MAY 11...	0925	25.02	1.5	430	455	6.4	7.2	22.0	110	7.2	.8	320
JUN 04...	1128	25.09	2.3	210	--	6.3	--	26.0	--	5.7	--	--
AUG 06...	1119	27.31	107	70	--	5.6	--	29.0	--	2.6	--	--
SEP 18...	1330	25.07	2.4	620	614	7.2	7.3	28.0	60	7.8	1.4	1700

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
MAY 11...	K70	83	39	19	20	2.2	61	37	.90	5.3	330	.010
SEP 18...	460	230	69	32	13	2.0	--	--	--	5.5	449	<.010

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
MAY 11...	.02	.040	1.5	.290	.290	80	2	1	780	330	450	1
SEP 18...	.01	.060	.63	.150	.110	80	1	1	460	--	230	<1

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L) (39250)
MAY 11...	0	2	40	10	26	.1	2	610	21	22	--	--
SEP 18...	--	<1	10	--	19	<.1	2	2800	<3	12	<.1	<.10

DATE	ALDRIN, TOTAL (UG/L) (39330)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIAZINON, TOTAL (UG/L) (39570)	DIELDRIN TOTAL (UG/L) (39380)	ENDOSULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTACHLOR, TOTAL (UG/L) (39410)
SEP 18...	<.010	<.1	<.010	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.010

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	MIREX, TOTAL (UG/L) (39755)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)	PARA-THION, TOTAL (UG/L) (39540)	PER-THANE TOTAL (UG/L) (39034)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)
SEP 18...	<.010	<.01	<.010	<.01	<.01	<.01	<.01	<.01	<.1	<1	<.01

PHYTOPLANKTON ANALYSES

02299410 - BIG SLOUGH CANAL NR MYAKKA CITY, FLA.

DATE	TIME	CHLORO PHYCEAE (96001)	SCHROE DERIA (96190)	ANKIS TRODES MUS (96202)	CRUCI GENIA (96240)	GOLEN KINIA (96252)	PLEURO TAENIUM (96324)	CRYPTO MONAS (96416)	CRYPTO PHYCEAE (96423)	NAVI CULA (96791)	A. CYANEA (98085)	LYNGBYA (98131)
MAY 11...	0925	440	87	L1	--	87	87	87	1400	--	5600	87
SEP 18...	1330	--	--	--	520	--	--	--	200	65	1600	--

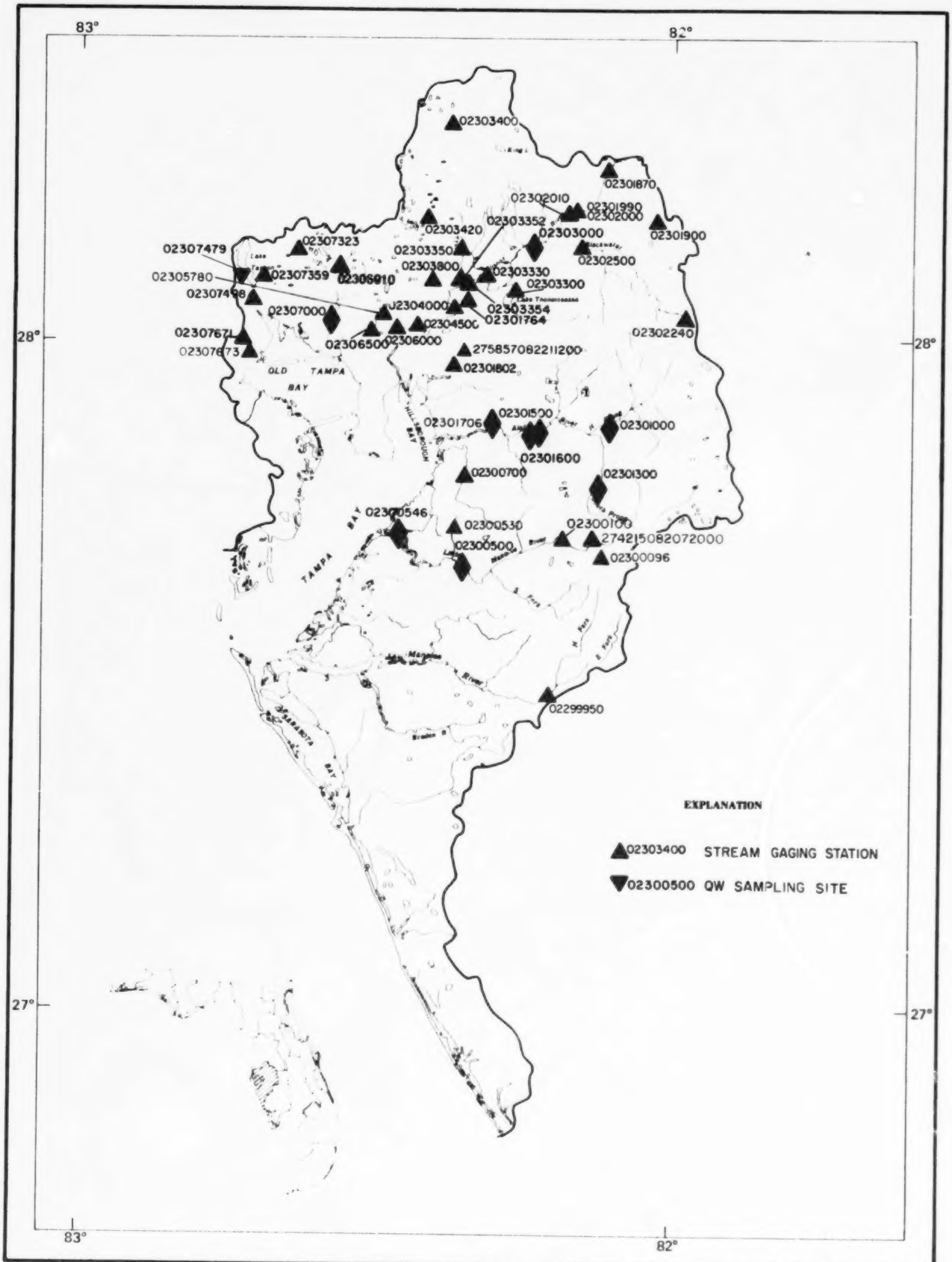

Figure 6. Location of stream gaging stations in the Manatee, Little Manatee, Alafia, and Hillsborough River basins, and Tampa Bay and coastal areas.

MANATEE RIVER BASIN

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL

LOCATION.--Lat 27°28'24", long 82°12'41", in SE¼ sec.33, T.34 S., R.21 E., Manatee County, Hydrologic Unit 03100202, near center of span on upstream side of bridge on State Highway 64, 2.0 mi downstream from confluence of North and East Forks Manatee River, 5.4 mi east of State Highway 675, 8.4 mi west of Myakka Head, and 36 mi upstream from mouth.

DRAINAGE AREA.--65.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WRD FL 1968: 1966. WDR FL-75-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.93 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good. Extreme low flow affected at times by ground-water pumpage into channel above station by Manatee County Utilities since about September 1984.

AVERAGE DISCHARGE.--18 years, 66.2 ft^3/s, 13.77 in/yr. The figures published in the 1982 report were in error: the correct figures are 16 years, 65.1 ft^3/s, 13.54 in/yr. The figures published in the 1983 report were in error: the correct figures are 17 years, 67.8 ft^3/s, 14.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,760 ft^3/s June 18, 1982, gage height, 17.60 ft; no flow part of May 24, 1975, gage height, 0.48 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft^3/s Dec. 30, gage height, 11.86 ft; minimum, 1.6 ft^3/s June 13, gage height, 0.78 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	8.3	78	290	21	43	15	7.9	12	2.1	110	19
2	41	8.0	53	183	20	33	13	8.1	7.2	2.5	94	20
3	32	7.5	36	127	19	28	13	7.3	5.0	3.0	88	17
4	27	7.2	26	94	21	25	13	6.4	3.9	12	83	14
5	23	7.1	22	73	23	23	19	5.9	3.3	25	86	12
6	20	7.2	19	60	21	21	19	5.3	3.0	18	89	13
7	18	8.8	18	51	19	19	15	5.8	2.7	12	107	12
8	17	26	17	45	18	18	13	7.1	2.5	11	122	11
9	16	32	15	40	19	16	12	8.0	2.2	9.2	82	9.7
10	16	24	13	49	19	15	17	7.1	2.1	28	53	9.9
11	16	19	12	112	19	16	18	6.4	2.1	84	37	9.5
12	17	16	15	105	19	18	16	4.9	1.8	65	27	9.0
13	17	14	19	79	21	124	13	4.3	1.7	45	31	8.4
14	20	13	18	65	38	184	12	4.0	2.0	30	84	7.6
15	36	12	332	57	56	101	50	4.0	2.0	21	222	8.0
16	60	11	406	51	41	54	187	4.0	2.2	19	159	6.9
17	55	9.9	209	46	29	42	150	3.7	2.4	68	95	13
18	51	9.2	145	43	24	30	77	3.6	2.7	66	60	22
19	37	8.5	115	44	21	24	48	3.5	4.7	56	39	26
20	28	9.5	105	53	20	20	33	3.5	7.4	50	29	24
21	22	27	103	56	19	19	24	3.6	5.7	95	29	15
22	19	29	82	53	33	17	31	3.7	5.0	78	40	17
23	17	23	65	46	55	37	24	3.7	4.1	48	52	13
24	16	19	55	41	60	100	21	3.0	3.9	34	174	6.4
25	17	18	46	37	44	95	17	3.5	4.8	25	166	6.3
26	15	19	38	34	35	58	14	4.6	3.7	27	106	13
27	13	17	33	32	29	40	12	7.6	2.9	49	69	20
28	11	14	32	30	43	29	11	9.4	2.5	47	46	26
29	9.9	13	132	27	52	23	9.8	9.8	2.2	34	32	43
30	9.4	25	876	25	---	20	9.9	12	2.2	26	25	34
31	8.7	---	615	22	---	17	---	12	---	130	21	---
TOTAL	765.0	462.2	3750	2070	858	1309	926.7	183.7	109.9	1219.8	2457	465.7
MEAN	24.7	15.4	121	66.8	29.6	42.2	30.9	5.93	3.66	39.3	79.3	15.5
MAX	60	32	876	290	60	184	187	12	12	130	222	43
MIN	8.7	7.1	12	22	18	15	9.8	3.0	1.7	2.1	21	6.3
CFSM	.38	.24	1.85	1.02	.45	.65	.47	.09	.06	.60	1.21	.24
IN.	.44	.26	2.14	1.18	.49	.75	.53	.10	.06	.69	1.40	.27

CAL YR 1983 TOTAL 40907.7 MEAN 112 MAX 993 MIN 4.3 CFSM 1.72 IN 23.30
WTR YR 1984 TOTAL 14577.0 MEAN 39.8 MAX 876 MIN 1.7 CFSM .61 IN 8.30

MANATEE RIVER BASIN

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
OCT												
14...	1615	2.08	19	120	--	7.6	--	25.0	--	--	6.2	--
19...	1115	2.76	37	--	105	7.0	6.8	24.0	120	.50	6.3	2.3
DEC												
08...	1345	1.79	17	120	--	7.8	--	17.5	--	--	8.4	--
FEB												
17...	1230	2.22	38	120	--	7.7	--	18.0	--	--	8.0	--
APR												
11...	1348	1.77	18	150	--	8.2	--	21.0	--	--	6.2	--
MAY												
23...	0945	1.03	3.7	232	--	7.5	--	24.0	--	--	7.5	.8
JUN												
06...	1700	.95	3.0	190	--	7.0	--	27.0	--	--	9.6	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT												
19...	8.4	3.9	5.1	1.3	13	11	.40	6.3	102	.010	.04	<.020
MAY												
23...	--	--	--	--	--	--	--	--	--	<.010	<.02	.010

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
19...	.89	.180	.150	390	1	<1	2	610	290	320	2
MAY											
23...	.11	.550	.510	--	--	--	--	--	--	--	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT											
19...	0	2	10	0	10	<.1	<1	130	20	23	12
MAY											
23...	--	--	--	--	--	--	--	--	--	5.9	--

LITTLE MANATEE RIVER BASIN

274215082072000 UNNAMED TRIBUTARY AT HIGHWAY 674 NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'15", long 82°07'20", in SW¼ sec.8, T.32 S., R.22 E., Hillsborough County, Hydrologic Unit 03100203, on downstream side of culvert on State Highway 674, 0.4 mi upstream from mouth, and 1.1 mi east of Fort Lonesome.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--July 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.34 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft^3/s Dec. 29, 1983, gage height, 2.49 ft; no flow for many days each year; water ponded at gage many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s Dec. 29, gage height, 2.49 ft; no flow for many days; water ponded at gage many days.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	.04	.09
2										---	.05	.70
3										---	.02	.42
4										---	.01	.12
5										---	.01	.05
6										---	.04	.03
7										---	.42	.01
8										---	.45	.01
9										---	.74	.01
10										---	.63	.00
11										---	.12	.00
12										---	.05	1.9
13										.00	.04	1.7
14										.00	.04	.55
15										.06	.03	.47
16										.02	.27	.13
17										.01	.44	.08
18										.00	.26	.73
19										.00	.06	5.0
20										.01	.03	2.4
21										.00	.02	.41
22										.00	.02	.19
23										.00	.01	.09
24										.00	.01	.05
25										.00	.02	.02
26										.00	.02	.01
27										.00	.01	.01
28										.00	.00	.01
29										.01	.00	.00
30										.02	.10	.00
31										.03	.15	---
TOTAL										---	4.11	15.19
MEAN										---	.13	.51
MAX										---	.74	5.0
MIN										---	.00	.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

274215082072000 UNNAMED TRIBUTARY AT HIGHWAY 674 NEAR FORT LONESOME, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.13	.12	.01	.03	.00	.00	.00	.00	.48	.00
2	.00	.00	.07	.07	.01	.02	.00	.00	.00	.17	.42	.00
3	.00	.00	.03	.04	.01	.02	.00	.00	.00	.08	.12	.00
4	.00	.00	.01	.02	.01	.01	.01	.00	.00	.01	.13	.00
5	.00	.00	.01	.02	.01	.01	.01	.00	.00	.01	.04	.00
6	.00	.00	.01	.02	.01	.01	.00	.00	.00	.01	.02	.00
7	.00	.00	.01	.02	.00	.01	.00	.00	.00	.00	.01	.00
8	.00	.08	.01	.01	.00	.01	.00	.00	.00	.24	.01	.00
9	.00	.02	.01	.01	.00	.00	.00	.00	.00	.19	.00	.00
10	.00	.01	.00	.06	.00	.00	.01	.00	.00	.01	.00	.00
11	.08	.01	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00
12	.10	.00	.02	.07	.00	.02	.00	.00	.00	.00	.00	.00
13	.04	.00	.01	.04	.48	.55	.00	.00	.00	.00	.00	.00
14	.03	.00	.01	.02	.27	.07	.02	.00	.00	.00	.01	.00
15	.04	.00	.37	.02	.08	.03	.07	.00	.00	.00	.00	.00
16	.11	.00	.08	.02	.04	.01	.03	.00	.00	.01	.00	.00
17	.05	.00	.10	.02	.02	.01	.01	.00	.69	.03	.00	.00
18	.02	.00	.08	.02	.02	.01	.01	.00	.04	.03	.00	.00
19	.01	.00	.05	.11	.01	.00	.01	.00	.01	.11	.00	.00
20	.01	.01	.10	.07	.01	.00	.00	.00	.00	.20	.00	.00
21	.01	.09	.05	.06	.40	.00	.00	.00	.00	.01	.25	.00
22	.01	.04	.03	.03	1.4	.00	.00	.00	.00	.01	.07	.00
23	.00	.02	.02	.03	.26	.23	.00	.00	.00	.01	.01	.00
24	.00	.01	.02	.02	.09	.10	.00	.00	.00	.07	.01	.00
25	.00	.01	.01	.02	.05	.04	.00	.00	.00	.12	.01	.00
26	.00	.01	.01	.02	.03	.02	.00	.00	.00	.50	.02	.00
27	.00	.01	.01	.02	.08	.01	.00	.00	.00	.35	.01	.01
28	.00	.01	.01	.02	.22	.01	.00	.00	.00	.06	.00	.04
29	.00	.01	5.7	.01	.06	.01	.00	.00	.00	.02	.00	.00
30	.00	.25	2.4	.01	---	.01	.00	.00	.00	.59	.00	.00
31	.00	---	.35	.01	---	.01	---	.00	---	.37	.00	---
TOTAL	.51	.59	9.72	1.22	3.58	1.26	.18	.00	.74	3.21	1.62	.05
MEAN	.02	.02	.31	.04	.12	.04	.01	.00	.02	.10	.05	.00
MAX	.11	.25	5.7	.19	1.4	.55	.07	.00	.69	.59	.48	.04
MIN	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00

WTR YR 1984 TOTAL 22.68 MEAN .06 MAX 5.7 MIN .00

LITTLE MANATEE RIVER BASIN

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'16", long 82°11'53", in NW¼ sec.15, T.32 S., R.21 E., Hillsborough County, Hydrologic Unit 03100203, on left bank, 100 ft downstream of bridge on State Highway 674, 0.6 mi upstream from Howard Prairie Branch, 3.2 mi west of Fort Lonesome, 6.2 mi east of Wimauma, and 30 mi upstream from mouth.

DRAINAGE AREA.--31.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 45.00 ft National Geodetic Vertical Datum of 1929. Prior to June 23, 1980, at site 100 ft upstream at same datum.

REMARKS.--Records good. Small diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--21 years, 29.6 ft^3/s, 12.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft^3/s Sept. 22, 1979, gage height, 11.73 ft, from rating curve extended above 700 ft^3/s; no flow at times in most years; river dry at gage several days in 1974-75, 1977, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 445 ft^3/s Dec. 30, gage height, 8.66 ft, no peak above base of 500 ft^3/s; minimum, 1.1 ft^3/s Sept. 18, gage height, 1.83 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	3.6	44	130	11	36	10	3.7	7.2	5.5	103	5.5
2	13	3.4	42	77	11	27	8.2	3.5	5.6	13	92	5.0
3	11	3.0	28	51	11	22	6.9	3.3	4.5	30	69	4.6
4	9.4	2.9	21	38	11	20	6.7	3.1	4.0	29	53	3.7
5	8.0	3.3	17	31	10	19	7.3	3.1	3.8	21	51	5.0
6	7.2	3.7	15	27	10	18	9.2	3.6	3.7	12	47	6.5
7	6.8	4.3	15	24	9.9	17	9.8	7.3	3.6	8.2	37	6.3
8	7.1	9.2	14	21	9.7	15	9.1	5.7	3.4	6.7	24	6.5
9	7.6	10	12	19	10	13	9.2	5.5	3.0	15	15	6.4
10	7.2	9.8	11	22	9.7	11	10	4.9	2.4	32	12	5.0
11	7.6	8.7	11	41	9.5	11	10	3.9	2.3	21	11	4.2
12	8.4	7.3	21	41	10	10	9.0	3.2	2.2	14	15	4.9
13	9.8	6.3	19	33	24	46	8.5	2.9	2.0	9.5	12	4.7
14	12	5.3	18	29	56	55	9.1	2.6	2.3	8.0	11	3.3
15	14	4.5	35	25	57	40	19	2.4	2.2	6.9	9.8	2.3
16	18	4.3	59	23	41	27	36	2.3	2.3	9.4	9.7	1.8
17	18	5.2	72	22	31	20	41	2.1	3.3	8.8	8.2	1.4
18	19	6.8	55	22	25	16	32	2.2	11	8.6	6.6	1.2
19	15	7.1	37	27	21	14	20	2.3	18	13	5.9	1.5
20	12	8.5	34	29	19	12	15	2.2	9.6	11	6.5	1.7
21	9.6	15	31	27	19	11	11	2.2	6.6	12	42	1.5
22	8.1	15	29	22	89	11	8.9	2.7	5.3	10	34	1.8
23	7.0	12	26	17	123	19	7.1	7.8	4.5	7.8	27	2.1
24	6.5	11	23	14	87	37	6.5	6.1	4.5	11	19	2.2
25	5.9	11	19	12	56	37	5.2	4.8	4.5	20	16	1.9
26	5.3	9.0	15	13	39	27	4.9	3.6	4.3	25	13	1.8
27	5.0	7.1	12	13	31	21	4.9	3.9	4.0	37	10	2.2
28	4.5	6.0	12	12	49	17	4.6	7.3	3.7	36	7.9	23
29	4.2	5.4	115	12	47	16	4.2	7.3	3.7	26	5.7	20
30	4.0	14	376	12	---	15	3.9	9.9	3.6	37	4.6	12
31	3.7	---	218	12	---	13	---	8.4	---	92	5.0	---
TOTAL	288.9	222.7	1456	898	936.8	673	347.2	133.8	141.1	596.4	782.9	150.0
MEAN	9.32	7.42	47.0	29.0	32.3	21.7	11.6	4.32	4.70	19.2	25.3	5.00
MAX	19	15	376	130	123	55	41	9.9	18	92	103	23
MIN	3.7	2.9	11	12	9.5	10	3.9	2.1	2.0	5.5	4.6	1.2
CFSM	.30	.24	1.50	.92	1.03	.69	.37	.14	.15	.61	.81	.16
IN.	.34	.26	1.72	1.06	1.11	.80	.41	.16	.17	.71	.93	.18

CAL YR 1983 TOTAL 18403.88 MEAN 50.4 MAX 564 MIN .01 CFSM 1.61 IN 21.80
WTR YR 1984 TOTAL 6626.80 MEAN 18.1 MAX 376 MIN 1.2 CFSM .58 IN 7.85

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)
OCT										
19...	1340	3.02	14	108	97	6.5	6.8	24.0	140	--
NOV										
10...	0940	2.69	10	112	--	5.2	--	19.5	--	1.1
JAN										
13...	1130	3.87	33	105	--	7.2	--	13.5	--	1.1
FEB										
27...	0955	3.70	28	99	--	6.2	--	19.0	--	1.3
MAY										
16...	1000	2.03	2.2	158	--	7.2	--	23.0	--	--
23...	1315	2.64	8.8	107	111	5.3	6.3	24.0	60	--
JUN										
27...	1430	2.02	4.0	116	--	6.7	--	25.5	--	--

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT									
19...	6.6	6.5	3.2	6.1	2.0	17	.40	7.0	98
NOV									
10...	7.1	--	--	--	--	--	--	--	--
JAN									
13...	8.4	--	--	--	--	--	--	--	--
FEB									
27...	6.8	--	--	--	--	--	--	--	--
MAY									
16...	8.3	--	--	--	--	--	--	--	--
23...	6.3	8.0	3.7	7.4	1.4	13	.30	3.4	79
JUN									
27...	7.3	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT									
19...	--	--	--	--	--	--	93	21	11
NOV									
10...	<.010	.05	.010	.67	.360	.290	--	--	--
JAN									
13...	.010	.14	.020	.63	.430	.410	--	--	--
FEB									
27...	.010	.07	.020	.69	.490	.440	--	--	--
MAY									
16...	.010	.20	.010	.31	.380	.340	--	--	--
23...	--	--	--	--	--	--	80	12	16
JUN									
27...	.010	.17	.020	.45	.380	.340	--	--	--

LITTLE MANATEE RIVER BASIN

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL

LOCATION.--Lat 27°40'15", long 82°21'10", in NE¼ sec.25, T.32 S., R.19 E., Hillsborough County, Hydrologic Unit 03100203, near center of span on downstream side of bridge on U. S. Highway 301, 1.6 mi upstream from Cypress Creek, 4.2 mi southwest of Wimauma, and 15 mi upstream from mouth.

DRAINAGE AREA.--149 mi².

PERIOD OF RECORD.--March 1939 to current year.

REVISED RECORDS.--WSP 1032: 1939(M). WSP 1905: 1961-62, 1965 drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1963, at site 75 ft downstream at datum 2.17 ft higher; Oct. 1, 1963, to Sept. 22, 1971, at former site and present datum.

REMARKS.--Records fair. Some diversion, 3.3 mi above station by Manatee Power Plant since June 1974. Stage-discharge relation affected by tide on some days.

AVERAGE DISCHARGE.--45 years, 171 ft³/s, 15.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s Sept. 11, 1960, gage height, 19.76 ft, present datum; minimum, 0.78 ft³/s Dec. 18, 19, 1976; minimum gage height, 1.38 ft May 18, 19, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft³/s Dec. 31, gage height, 11.35 ft, no other peak above base of 1,400 ft³/s; minimum, 20 ft³/s June 14, gage height, 1.88 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	60	166	1120	95	188	85	50	44	35	300	77
2	116	58	122	570	91	162	81	50	38	63	232	69
3	98	56	104	287	88	140	82	48	36	78	217	64
4	92	58	92	205	86	123	94	47	32	123	172	65
5	89	58	83	174	80	114	88	43	30	103	162	78
6	80	58	80	138	79	109	73	42	27	81	146	164
7	63	67	83	104	81	103	73	70	26	62	126	145
8	85	107	74	94	84	94	77	73	26	54	111	94
9	115	98	69	81	83	92	80	59	25	56	97	82
10	84	85	66	104	83	92	77	53	24	79	84	79
11	92	78	65	225	82	90	75	50	22	115	71	74
12	105	76	162	211	78	103	75	46	21	92	76	65
13	114	73	113	193	89	416	77	42	21	98	95	63
14	106	69	91	172	169	346	85	40	22	123	201	59
15	125	65	240	153	162	232	143	38	27	85	230	57
16	212	60	227	142	146	174	181	37	25	86	191	55
17	217	54	244	133	131	143	198	37	32	119	159	53
18	174	57	228	129	115	128	173	37	47	83	122	49
19	152	58	157	172	105	112	131	37	41	76	94	54
20	130	78	183	186	103	101	103	37	40	78	80	53
21	115	99	140	174	97	92	88	37	32	76	304	50
22	103	83	124	156	342	85	78	43	28	75	275	51
23	97	78	113	140	404	164	76	67	28	69	218	47
24	93	83	105	118	289	222	69	48	26	65	180	45
25	86	94	106	99	218	169	62	47	27	91	164	42
26	78	75	100	106	168	144	76	58	27	112	142	42
27	75	71	97	111	147	124	84	40	32	152	133	44
28	67	71	94	104	310	113	60	39	30	110	110	147
29	65	63	328	105	242	127	50	47	27	105	94	156
30	63	111	1180	101	---	97	48	50	32	142	86	121
31	61	---	1470	98	---	94	---	54	---	213	97	---
TOTAL	3288	2201	6506	5905	4247	4493	2742	1466	895	2907	4769	2244
MEAN	106	73.4	210	190	146	145	91.4	47.3	29.8	93.8	154	74.8
MAX	217	111	1470	1120	404	416	198	73	47	213	304	164
MIN	61	54	65	81	78	85	48	37	21	35	71	42
CFSM	.71	.49	1.41	1.28	.98	.97	.61	.32	.20	.63	1.03	.50
IN.	.82	.55	1.62	1.47	1.06	1.12	.68	.37	.22	.73	1.19	.56

CAL YR 1983 TOTAL 96029 MEAN 263 MAX 1850 MIN 34 CFSM 1.77 IN 23.97
WTR YR 1984 TOTAL 41663 MEAN 114 MAX 1470 MIN 21 CFSM .77 IN 10.40

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	---	---	---	---	---	---	---		---		---
2	---	---	---	---	---	---	---	366		---		---
3	---	---	---	122	---	---	---	---		---		---
4	---	---	---	---	---	---	---	---		---		---
5	---	300	---	---	---	---	---	---		---		---
6	---	---	---	---	---	---	---	---		---		---
7	---	---	---	---	---	---	---	---		---		179
8	---	---	---	---	---	241	---	---		---		---
9	---	---	---	---	---	---	---	---		---		---
10	180	---	---	---	---	---	---	---		---		---
11	---	---	---	---	---	---	254	---		---		---
12	---	---	---	---	---	---	---	---		---		---
13	---	273	---	134	285	---	---	---		---		---
14	---	---	154	---	---	---	---	---		---		---
15	---	---	---	---	---	160	---	---		---		---
16	---	---	---	---	---	---	---	---		---		---
17	---	---	---	---	---	---	---	---		---		---
18	---	---	---	---	---	---	---	---		---		---
19	---	305	---	---	---	---	---	---		---		---
20	154	---	---	---	---	---	---	---		183		---
21	---	---	---	135	---	---	237	---		---		---
22	---	---	138	---	---	---	---	430		---		---
23	---	---	---	---	---	302	---	---		---		---
24	---	---	---	---	133	---	---	---		---		---
25	---	---	---	---	---	---	---	---		---		---
26	---	---	---	---	---	---	---	---		---		---
27	---	205	---	---	---	---	---	---		---		383
28	---	---	---	---	---	---	358	---		---		---
29	---	---	---	---	170	252	---	432		---		---
30	---	---	---	---	---	---	---	---		---		---
31	---	---	---	---	---	---	---	---		---		---
MEAN	168	260	146	130	196	239	283	409		183		281

WTR YR 1984 MEAN 236 MAX 432 MIN 122

LITTLE MANATEE RIVER BASIN

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	---	---	---	---	---	---	---		---		---
2	---	---	---	---	---	---	---	23.5		---		---
3	---	---	---	13.0	---	---	---	---		---		---
4	---	---	---	---	---	---	---	---		---		---
5	---	21.5	---	---	---	---	---	---		---		---
6	---	---	---	---	---	---	---	---		---		---
7	---	---	---	---	---	---	---	---		---		24.0
8	---	---	---	---	---	17.5	---	---		---		---
9	---	---	---	---	---	---	---	---		---		---
10	24.5	---	---	---	---	---	---	---		---		---
11	---	---	---	---	---	---	20.0	---		---		---
12	---	---	---	---	---	---	---	---		---		---
13	---	18.0	---	14.5	19.0	---	---	---		---		---
14	---	---	18.0	---	---	---	---	---		---		---
15	---	---	---	---	---	21.5	---	---		---		---
16	---	---	---	---	---	---	---	---		---		---
17	---	---	---	---	---	---	---	---		---		---
18	---	---	---	---	---	---	---	---		---		---
19	---	15.0	---	---	---	---	---	---		---		---
20	24.0	---	---	---	---	---	20.5	---		25.5		---
21	---	---	---	14.0	---	---	---	---		---		---
22	---	---	20.0	---	---	---	---	27.0		---		---
23	---	---	---	---	---	18.0	---	---		---		---
24	---	---	---	---	18.0	---	---	---		---		---
25	---	---	---	---	---	---	---	---		---		---
26	---	---	---	---	---	---	---	---		---		---
27	---	19.0	---	---	---	---	---	---		---		24.5
28	---	---	---	---	---	---	23.0	---		---		---
29	---	---	---	---	15.5	21.0	---	24.0		---		---
30	---	---	---	---	---	---	---	---		---		---
31	---	---	---	---	---	---	---	---		---		---
MEAN	24.0	18.5	19.0	14.0	17.5	19.5	21.0	25.0		25.5		24.5

WTR YR 1984 MEAN 20.5 MAX 27.0 MIN 13.0

LITTLE MANATEE RIVER BASIN

02300546 LITTLE MANATEE RIVER NEAR RUSKIN, FL

LOCATION.--Lat 27°41'18", long 82°26'19", in NE¼ sec.19, T.32 S., R.19 E., Hillsborough County, Hydrologic Unit 03100203, on right bank, at private residence on Manatee Drive, 2.2 mi south of Ruskin, and 4.8 mi above mouth.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1983 to September 1984 (maximum and minimum gage heights only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Gage records tidal fluctuations in Little Manatee River; gage heights affected by flow from Little Manatee River. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide occurred; on those days the daily extremes are used.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.66 ft Mar. 29, 1984; minimum, 8.03 ft June 1, 1984.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.99	9.78	10.80	9.20	10.67	8.69	10.51	8.28	10.59	8.08	9.95	7.99
2	12.20	10.02	10.62	9.23	11.02	8.98	10.53	8.37	10.30	8.12	10.27	8.41
3	12.21	10.09	10.73	8.99	11.25	8.98	10.79	8.45	10.81	8.70	10.52	8.60
4	12.32	10.37	11.06	9.20	11.65	9.13	10.97	8.64	11.04	9.16	10.00	8.49
5	12.37	10.50	11.45	9.35	11.41	8.80	11.06	8.71	10.81	8.72	10.74	8.93
6	12.04	10.35	11.41	9.06	11.50	9.12	11.14	8.88	10.73	8.84	10.95	9.43
7	11.73	9.66	11.29	9.13	11.24	8.37	11.12	8.99	9.57	8.16	10.77	9.39
8	11.07	9.17	12.24	9.71	10.75	8.50	10.59	8.57	9.70	8.00	9.70	8.04
9	11.16	9.12	11.65	9.27	10.35	8.34	10.35	8.60	10.29	8.37	10.10	8.34
10	10.99	8.96	11.58	9.48	10.65	8.59	11.41	9.64	10.67	8.51	10.58	8.20
11	11.38	9.36	11.70	9.20	10.69	8.99	10.41	9.51	10.57	8.38	10.31	8.20
12	11.57	9.43	10.71	8.79	11.04	9.60	10.41	8.73	10.96	8.37	11.00	8.10
13	11.44	9.58	10.50	8.95	10.50	8.99	10.41	8.67	11.25	8.53	10.82	8.70
14	10.82	8.99	10.52	9.06	10.95	9.31	10.25	8.33	10.19	8.68	10.09	8.62
15	10.80	9.14	10.95	9.77	10.79	9.00	10.79	8.24	10.98	8.40	10.78	8.45
16	11.00	9.36	11.11	9.54	10.37	8.23	11.23	8.43	10.97	8.50	10.93	8.81
17	11.16	9.24	10.66	8.92	10.39	8.69	11.30	8.72	11.15	8.62	11.12	9.05
18	10.78	9.25	10.63	8.90	10.98	8.41	11.75	8.92	10.82	8.64	11.06	8.99
19	10.90	9.37	10.93	9.00	11.09	8.53	11.81	9.11	10.77	8.77	11.16	9.24
20	11.06	9.37	11.72	9.64	10.99	8.50	10.34	8.16	10.69	8.97	11.63	9.72
21	10.68	9.07	11.73	9.01	11.00	8.46	10.77	8.14	10.95	9.00	10.96	9.53
22	10.82	8.99	11.49	8.87	11.15	8.56	9.17	7.79	11.32	9.29	10.81	8.54
23	11.20	9.33	11.42	8.97	11.18	8.64	10.57	8.48	10.57	9.31	10.38	8.45
24	11.86	9.61	11.89	9.38	10.93	8.65	11.01	9.29	10.45	8.62	10.96	8.36
25	11.31	8.89	11.90	8.61	8.83	7.64	11.10	9.37	10.08	8.57	10.85	8.60
26	11.03	8.83	10.68	8.69	9.57	7.93	11.08	9.00	10.41	8.24	10.49	8.82
27	10.93	8.44	11.08	9.14	10.41	8.76	10.74	8.97	11.33	8.78	11.28	8.68
28	10.54	8.51	11.23	9.56	11.13	9.10	10.71	8.58	11.43	10.06	11.44	9.57
29	10.85	8.62	10.71	8.80	10.86	9.09	9.77	8.46	10.72	8.55	12.66	9.73
30	10.90	8.81	10.38	9.05	9.61	8.68	10.50	8.42	---	---	10.42	8.47
31	10.99	9.08	---	---	9.34	8.38	10.89	8.29	---	---	10.06	8.56
MEAN	11.29	9.33	11.16	9.15	10.72	8.70	10.76	8.67	10.69	8.65	10.74	8.74

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300546 LITTLE MANATEE RIVER NEAR RUSKIN, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.16	8.69	11.01	8.82	10.74	8.03	11.60	8.94	11.57	9.56	11.15	9.09
2	10.43	8.76	11.37	9.08	11.41	8.20	11.45	8.84	11.00	9.71	11.06	9.02
3	11.24	9.26	11.02	10.50	11.20	8.66	11.12	8.85	10.73	9.20	11.18	9.04
4	11.66	9.87	11.85	9.48	11.14	8.54	10.87	8.80	11.00	9.24	11.34	9.21
5	10.82	9.70	11.49	9.10	11.09	8.67	10.61	9.01	11.17	9.13	11.30	9.15
6	10.69	8.83	11.28	8.73	11.03	8.84	10.76	9.14	11.16	8.83	11.17	8.94
7	10.74	8.51	11.16	8.60	10.66	9.04	10.91	9.01	11.06	8.72	11.07	8.83
8	11.20	8.35	11.12	8.66	10.85	9.14	11.01	8.71	11.24	8.80	10.81	8.93
9	11.73	9.11	10.51	9.05	11.01	9.28	11.16	8.87	11.17	8.87	11.39	9.70
10	11.37	9.21	10.21	8.39	11.25	9.15	11.40	8.78	11.22	8.98	11.29	9.46
11	11.21	9.04	10.21	8.53	11.43	9.01	11.39	8.82	11.28	9.11	11.30	9.53
12	10.77	8.96	10.75	8.95	11.42	8.76	11.65	9.06	11.30	9.10	11.11	9.49
13	11.57	9.52	10.64	8.60	11.58	8.87	11.66	10.20	11.25	9.06	11.05	9.50
14	11.37	9.68	10.87	8.61	11.84	9.02	11.62	9.08	11.05	9.26	10.99	9.32
15	11.27	9.68	10.95	8.48	11.78	9.05	11.35	9.10	10.89	9.35	11.30	9.48
16	11.64	9.27	10.87	9.21	11.56	9.13	11.37	9.09	10.70	9.19	11.17	9.34
17	11.62	9.55	10.61	8.18	11.43	8.93	11.34	9.18	10.67	9.25	11.14	8.94
18	11.25	9.27	10.92	8.16	11.19	8.96	11.09	9.57	10.93	9.40	11.20	9.15
19	11.54	8.96	11.08	8.25	10.96	8.99	10.73	9.28	11.22	9.65	10.96	8.88
20	11.57	9.03	11.34	8.63	10.52	9.03	10.59	9.29	11.46	9.47	11.06	8.94
21	11.27	9.02	10.96	8.87	10.42	8.96	10.68	9.12	11.22	8.98	11.05	8.86
22	10.88	8.84	10.58	8.81	10.72	9.18	10.91	9.20	10.38	8.62	11.41	9.18
23	11.24	8.68	10.35	8.80	11.01	9.38	11.01	9.04	11.24	8.88	11.37	9.14
24	10.11	9.18	10.59	8.91	11.06	9.05	11.11	8.98	11.53	9.05	11.12	9.22
25	10.24	8.59	10.59	9.13	11.16	9.08	11.43	8.96	11.51	9.04	10.95	9.16
26	10.34	8.65	10.59	8.93	11.29	8.80	11.42	8.82	11.31	8.90	10.60	9.01
27	10.68	9.03	10.69	8.78	11.31	8.79	11.63	9.96	11.32	9.32	10.32	8.67
28	10.88	9.23	10.85	8.79	11.45	9.24	11.79	9.03	11.26	9.18	11.87	9.55
29	10.66	8.96	10.96	8.67	11.61	9.00	11.79	9.14	11.12	9.28	11.14	8.92
30	11.04	9.02	11.13	9.59	11.81	8.87	12.03	9.34	10.84	9.22	11.10	8.93
31	---	---	10.56	8.59	---	---	11.63	9.61	11.08	9.21	---	---
MEAN	11.04	9.08	10.87	8.83	11.20	8.92	11.26	9.12	11.13	9.15	11.13	9.15
YEAR	11.00	8.96										

02300546 LITTLE MANATEE RIVER NEAR RUSKIN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1984.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1983 to September 1984.
WATER TEMPERATURES: October 1983 to September 1984.

INSTRUMENTATION.--Water-quality monitor since October 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 36,900 microsiemens, July 13; minimum, 3,700 microsiemens, Aug. 3.
WATER TEMPERATURES: Maximum, 32.0°C, June 21, Sept. 2; minimum, 12.5°C, Dec. 27, Jan. 2.

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 2, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18900	15000			---	11200	25400	30100	28500	13100	21600
2	---	16300	19100			---	13000	30100	34800	32900	4300	20100
3	---	18800	25000			---	26100	33600	32200	34700	3700	21900
4	---	22000	29300			---	26600	31900	31700	31100	6900	25400
5	---	26400	25700			---	15900	30800	30900	26900	8000	24000
6	---	25600	---			---	15700	30400	30200	26200	10700	22800
7	15400	25400	---			---	17400	30300	27900	29200	13000	21900
8	16900	32100	---			---	28700	29100	29500	29900	19000	18400
9	15500	25000	---			---	29900	22500	30900	32300	21600	27500
10	11300	24300	---			---	22200	22400	32700	33600	23100	25300
11	18900	24800	---			---	21100	23700	34200	33000	25100	25400
12	18200	16000	---			---	23300	27900	31200	36500	24900	22700
13	16700	16200	---			---	27100	25600	34900	36900	26500	22000
14	10500	15700	---			---	24400	29000	35700	33600	20700	21900
15	10300	17800	---			---	21900	29400	33700	30000	10400	24900
16	10500	19100	---			5400	23600	29100	32200	29300	7900	23300
17	7300	16100	---			14900	22100	28600	31900	27400	7000	24800
18	4100	17600	---			14200	14500	31100	29400	22500	10000	25300
19	6200	23800	---			16000	22500	32400	27600	19600	14800	23000
20	11200	30300	---			25800	25400	33900	25500	16800	19400	24500
21	7100	26900	---			12400	23900	30000	24000	20100	13300	25600
22	11300	26000	---			13300	21600	27400	26800	22100	5100	30600
23	11300	27700	---			6400	28500	24600	27800	21100	12200	32400
24	22000	31200	---			14300	16700	25000	26500	20200	20400	29900
25	14800	30400	---			15000	17600	24800	28200	27100	20700	28700
26	14000	20800	---			8400	19100	23700	28100	25600	20400	25000
27	14000	25400	---			22200	21200	24400	28600	30500	23900	23400
28	11700	26900	---			29200	20700	27000	28800	31600	22300	34800
29	18400	19200	---			34700	18600	27200	29700	33100	20600	24900
30	18200	18800	---			9000	24500	30200	29800	29700	16500	24000
31	20500	---	---			10500	---	25900	---	18000	19500	---
MAX	---	32100	---			---	29900	33900	35700	36900	26500	34800

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300546 LITTLE MANATEE RIVER NEAR RUSKIN, FL

TEMPERATURE, WATER (DEG C) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	24.5	20.0	13.0	17.5	16.0	22.5	28.0	26.0	30.5	29.0	31.5
2	---	24.5	21.0	12.5	18.0	16.5	22.5	27.5	25.5	30.0	29.5	32.0
3	---	24.0	22.5	13.5	18.0	17.5	22.5	27.0	26.5	29.5	29.0	31.5
4	---	24.0	23.5	13.5	19.0	19.0	22.5	27.5	27.5	29.5	29.5	31.5
5	---	24.0	24.0	14.5	18.5	20.5	22.5	28.5	28.5	29.0	30.5	31.0
6	---	24.0	25.0	14.5	17.5	22.0	22.0	29.0	29.5	29.5	30.5	30.0
7	29.0	23.5	24.5	15.5	16.0	22.0	22.0	29.5	29.5	30.5	31.5	29.0
8	29.0	23.0	21.5	15.0	16.5	20.5	22.0	29.5	29.0	31.5	31.0	29.0
9	28.5	23.5	20.0	15.5	17.0	20.0	22.0	29.5	29.0	31.0	31.5	28.0
10	28.5	24.0	21.0	16.0	17.5	21.0	23.5	28.5	29.5	31.5	31.5	29.0
11	28.5	24.0	21.5	16.0	18.5	20.0	23.5	28.5	29.5	30.5	31.0	29.5
12	28.5	23.0	21.5	15.0	18.0	19.5	24.0	28.5	29.5	30.0	31.0	30.0
13	28.5	22.5	21.0	15.0	18.5	20.5	25.5	28.5	29.5	31.0	31.0	30.5
14	27.5	22.0	20.5	15.0	20.0	22.0	25.0	29.0	29.0	30.5	31.5	31.5
15	27.0	22.0	20.0	15.0	20.5	21.0	24.5	29.0	28.5	29.5	31.5	31.5
16	27.5	22.0	19.0	15.5	21.0	23.0	23.0	29.0	28.0	29.5	31.5	30.5
17	27.0	21.0	18.0	17.0	21.5	23.0	22.5	28.0	28.0	30.0	30.5	30.5
18	26.5	19.5	20.0	18.5	22.0	23.5	22.5	26.0	28.0	30.0	31.5	30.0
19	27.0	19.5	20.0	18.5	23.0	24.0	22.5	25.5	29.0	29.5	31.5	29.5
20	27.0	20.0	20.0	18.0	23.5	23.5	23.5	26.0	30.5	29.0	30.5	28.0
21	27.0	21.0	20.0	15.5	23.0	22.5	24.5	28.0	32.0	31.0	30.0	27.5
22	27.0	22.0	21.5	15.0	22.5	22.5	26.0	28.5	31.5	30.5	28.5	28.0
23	27.0	22.5	21.5	16.0	21.5	21.0	25.5	29.5	30.5	29.5	29.0	27.5
24	27.5	23.5	21.0	18.0	20.5	21.0	25.5	29.5	30.5	29.0	29.5	27.5
25	27.0	23.5	17.0	19.5	20.5	22.5	26.0	30.0	31.0	30.0	30.0	27.5
26	25.5	22.0	13.0	20.0	20.5	23.0	26.0	29.5	31.0	29.0	30.0	27.5
27	25.0	22.5	12.5	21.5	21.0	24.5	27.0	28.5	31.0	29.0	30.0	27.5
28	24.5	22.5	14.5	21.0	20.5	24.5	27.5	28.0	30.0	29.5	29.5	27.0
29	24.5	22.0	16.0	20.0	16.5	24.0	28.5	27.5	29.5	29.5	30.0	28.5
30	24.5	21.0	16.0	19.5	---	22.0	28.0	27.5	30.0	28.5	30.5	28.0
31	24.5	---	14.5	19.0	---	22.0	---	27.0	---	28.5	31.0	---
MAX	---	24.5	25.0	21.5	23.5	24.5	28.5	30.0	32.0	31.5	31.5	32.0

LITTLE MANATEE RIVER BASIN

02300530 CYPRESS CREEK NEAR WIMAUMA, FL

LOCATION.--Lat 27°42'27", long 82°21'48", in SW¼ sec.12, T.32 S., R.19 E., Hillsborough County, Hydrologic Unit 03100203, at center of span on upstream side of bridge on King's Boulevard, 0.3 mi south of State Highway 674, 2.7 mi upstream from mouth, and 3.5 mi west of Wimauma.

DRAINAGE AREA.--8.1 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.11 ft National Geodetic Vertical Datum of 1929 (local engineering company reference mark).

REMARKS.--Records good. Runoff affected by spray irrigation and urban development in basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft^3/s June 18, 1982, gage height, 12.83 ft; minimum, 0.22 ft^3/s May 26, 1983, May 21, 1984; minimum gage height, 3.18 ft June 14, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 146 ft^3/s July 31, gage height, 8.26 ft; minimum, 0.22 ft^3/s May 21; minimum gage height, 3.18 ft June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	1.8	12	37	4.9	21	3.5	1.8	2.7	3.1	52	3.2
2	4.4	1.7	11	23	4.8	15	2.9	1.7	2.5	2.7	37	3.1
3	4.1	1.7	8.1	18	4.7	12	2.6	1.5	2.4	3.9	24	3.0
4	3.3	1.7	7.1	14	5.0	10	9.1	1.3	1.7	5.1	17	2.8
5	3.1	1.7	6.8	12	4.7	9.0	8.6	1.1	1.1	4.7	12	2.8
6	2.8	1.9	6.9	10	4.6	8.1	7.2	1.5	.85	4.1	10	3.1
7	2.5	4.3	6.4	8.1	4.5	7.9	5.4	2.3	.62	3.5	8.3	3.2
8	8.8	9.8	5.4	7.3	4.9	7.0	4.7	1.8	.56	2.7	6.8	2.9
9	13	14	4.8	6.7	5.9	6.2	4.3	2.5	.90	2.4	5.5	2.7
10	12	12	4.4	13	5.7	5.7	4.7	3.3	1.2	1.8	4.2	2.6
11	17	9.5	4.6	21	5.6	5.4	3.7	2.1	.93	1.4	3.6	2.5
12	16	8.0	26	18	5.7	7.3	3.1	1.5	.90	2.9	3.5	2.3
13	13	6.7	27	16	6.4	48	2.9	1.5	.79	3.5	3.2	2.2
14	13	5.7	19	14	6.6	40	3.1	.66	2.3	4.0	25	2.0
15	16	4.8	24	12	5.3	25	4.0	.35	.90	8.2	40	1.8
16	16	4.3	25	10	5.4	14	4.3	.31	3.0	4.1	24	2.1
17	16	3.7	50	9.1	5.5	10	4.4	.70	4.7	3.6	15	2.2
18	13	3.2	53	9.0	5.4	8.2	4.3	.89	3.8	3.0	10	1.7
19	9.0	2.9	42	11	5.3	7.0	3.7	.93	6.0	2.8	7.8	1.7
20	6.6	5.7	65	11	6.8	6.2	3.2	.92	5.1	2.9	8.4	2.2
21	5.7	12	51	12	12	6.5	2.9	.52	3.5	2.1	27	1.9
22	4.8	11	33	12	29	6.1	2.9	4.7	2.3	2.7	24	1.5
23	4.5	9.0	22	11	24	13	2.6	11	2.1	20	17	1.4
24	4.1	9.0	17	9.1	17	15	2.9	11	2.8	20	13	1.4
25	3.8	11	13	7.9	13	12	2.4	8.5	2.7	10	9.6	1.3
26	3.5	9.0	11	6.9	11	8.9	2.0	14	2.1	10	8.3	1.3
27	2.9	7.6	9.5	6.3	18	7.1	2.6	11	2.9	11	7.2	2.5
28	2.7	6.9	8.6	6.1	41	6.2	2.7	7.4	2.3	9.6	5.4	21
29	2.3	6.4	44	5.8	31	5.8	2.6	5.7	2.9	11	4.3	20
30	2.3	7.9	100	5.4	---	4.2	2.3	4.4	2.8	55	3.7	14
31	2.1	---	67	5.1	---	4.0	---	3.6	---	108	3.4	---
TOTAL	233.0	194.9	784.6	367.8	303.7	361.8	115.6	110.48	69.35	329.8	440.2	116.4
MEAN	7.52	6.50	25.3	11.9	10.5	11.7	3.85	3.56	2.31	10.6	14.2	3.88
MAX	17	14	100	37	41	48	9.1	14	6.0	108	52	21
MIN	2.1	1.7	4.4	5.1	4.5	4.0	2.0	.31	.56	1.4	3.2	1.3
AC-FT	462	387	1560	730	602	718	229	219	138	654	873	231

CAL YR 1983 TOTAL 7979.79 MEAN 21.9 MAX 203 MIN .25 AC-FT 15830
WTR YR 1984 TOTAL 3427.63 MEAN 9.37 MAX 108 MIN .31 AC-FT 6800

LITTLE MANATEE RIVER BASIN

02300530 CYPRESS CREEK NEAR WIMAUMA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
13...	1245	4.15	12	285	6.3	25.0	5.6
NOV							
09...	1200	4.22	14	282	5.6	21.5	6.9
DEC							
06...	1150	3.80	6.4	338	6.9	23.0	6.5
JAN							
12...	1130	4.36	17	338	6.6	14.0	8.6
FEB							
06...	1530	3.71	4.6	340	6.5	15.0	9.8
29...	1315	4.85	39	410	7.3	15.0	8.3
APR							
03...	1400	3.55	2.5	430	6.5	22.0	8.0
MAY							
15...	1053	3.22	.37	455	6.5	26.5	11.0
31...	1400	3.55	3.1	415	6.0	24.0	6.7
JUN							
28...	1300	3.43	2.2	401	6.4	27.0	5.7
AUG							
20...	1400	3.95	9.2	388	5.8	27.0	5.3
SEP							
06...	1545	3.52	3.2	450	6.7	26.0	4.8

TAMPA BAY AND COASTAL AREAS

02300700 BULLFROG CREEK NEAR WIMAUMA, FL

LOCATION.--Lat 27°47'30", long 82°21'06", in SE¼ sec.12, T.31 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, near center of span on downstream side of bridge on State Highway 672-S, 0.6 mi downstream from Little Bullfrog Creek, 6.0 mi northwest of Wimauma, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--29.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1956 to November 1958; December 1958 to September 1974 (annual peak discharge); April 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1974, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years (water years 1957-58, 1978-84), 37.8 ft³/s, 17.64 in/yr.

EXTREMES FOR PERIOD OF RECORD (1956-58 AND SINCE 1977).--Maximum discharge, 2,360 ft³/s June 18, 1982, gage height, 28.86 ft; no flow Oct. 21-23, 1957, June 4, 5, 7, 10-21, 1956; minimum gage height, 16.85 ft part or all of each day June 19, 20, 21, 1979.
1958-74: Maximum discharge, 5,200 ft³/s Sept. 11, 1960, gage height, 30.59 ft, from crest stage indicator; minimum gage height and discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 402 ft³/s Dec. 30, gage height, 24.21 ft; minimum, 3.5 ft³/s July 10, 12, gage height, 17.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	17	81	21	45	18	14	12	4.4	108	7.7
2	15	13	18	53	20	38	18	15	11	4.1	82	7.6
3	15	12	17	40	20	33	17	15	9.5	8.6	39	7.3
4	14	12	16	34	20	28	32	14	8.4	7.4	30	6.7
5	14	12	16	29	18	26	35	13	7.8	5.6	26	9.0
6	14	12	15	27	17	24	22	13	7.2	5.7	21	10
7	14	17	13	24	19	23	18	14	7.3	5.5	17	27
8	37	23	13	23	20	23	18	15	6.6	4.4	15	22
9	42	23	13	24	22	22	17	23	5.8	3.9	13	14
10	44	19	12	45	22	22	16	17	5.5	3.8	12	15
11	80	16	12	57	20	22	15	15	5.4	4.9	11	11
12	62	15	45	45	21	28	14	14	5.0	5.1	9.9	11
13	50	15	48	40	24	145	17	14	4.8	9.0	9.0	9.9
14	46	13	32	36	20	132	18	13	5.4	31	8.9	9.6
15	66	13	61	32	19	55	21	13	5.5	23	9.6	8.8
16	52	13	72	28	19	36	18	14	4.5	24	11	7.8
17	42	13	115	26	20	28	17	13	4.1	20	11	7.2
18	33	12	154	25	20	26	17	12	7.2	16	9.5	8.6
19	26	12	100	28	19	26	14	12	8.4	13	8.4	9.6
20	24	24	270	28	25	25	13	11	7.7	13	9.4	8.4
21	21	24	138	28	24	22	12	12	5.4	13	30	8.8
22	23	20	73	26	66	19	14	31	4.7	17	28	7.6
23	26	17	51	27	58	39	16	62	4.7	19	21	6.5
24	26	15	41	23	35	51	16	32	4.7	26	20	6.5
25	23	17	35	21	28	35	14	44	3.9	25	14	5.8
26	20	19	32	22	26	25	13	47	4.6	23	13	4.7
27	18	18	29	22	38	21	14	22	5.7	36	14	4.9
28	16	19	27	21	108	19	15	18	5.0	39	11	67
29	16	17	102	20	75	19	14	17	6.3	25	9.6	46
30	15	15	346	22	---	19	13	15	5.4	77	8.7	33
31	15	---	225	20	---	18	---	13	---	167	7.6	---
TOTAL	926	485	2158	977	864	1094	516	597	189.5	680.4	637.6	409.0
MEAN	29.9	16.2	69.6	31.5	29.8	35.3	17.2	19.3	6.32	21.9	20.6	13.6
MAX	80	24	346	81	108	145	35	62	12	167	108	67
MIN	14	12	12	20	17	18	12	11	3.9	3.8	7.6	4.7
CFSM	1.03	.56	2.39	1.08	1.02	1.21	.59	.66	.22	.75	.71	.47
IN.	1.18	.62	2.76	1.25	1.10	1.40	.66	.76	.24	.87	.82	.52

CAL YR 1983 TOTAL 25734.8 MEAN 70.5 MAX 703 MIN 9.4 CFSM 2.42 IN 32.90
WTR YR 1984 TOTAL 9533.5 MEAN 26.0 MAX 346 MIN 3.8 CFSM .89 IN 12.19

02300700 BULLFROG CREEK NEAR WIMAUMA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-58, 1966-75, 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
19...	1445	18.78	42	318	6.[illegible]	25.0	7.0	16
NOV								
07...	0940	18.31	12	321	5.5	18.5	9.0	--
JAN								
13...	0915	19.21	44	238	7.1	13.5	9.0	--
FEB								
29...	1040	19.96	81	275	6.5	13.0	9.8	--
MAY								
02...	1030	18.28	16	462	5.8	23.0	9.5	--
24...	1330	18.88	32	519	7.0	26.0	6.9	16
JUL								
27...	1345	18.85	32	340	--	25.5	7.8	--
SEP								
20...	1255	18.09	8.8	348	6.8	25.0	8.2	--

ALAFIA RIVER BASIN

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL

LOCATION.--Lat 27°52'59", long 82°06'03", in SW¼ sec.10, T.30 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, near left bank, 300 ft below highway bridge, 0.6 mi north of Keysville, 4.0 mi upstream from confluence with South Prong Alafia River, and 29 mi upstream from mouth of Alafia River at Hillsborough Bay.

DRAINAGE AREA.--135 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1950 to current year. Monthly discharge only for May 1950, published in WSP 1304.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 38.56 ft National Geodetic Vertical Datum of 1929. Prior to May 8, 1974, at site 300 ft upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--34 years, 165 ft^3/s, 119,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,570 ft^3/s Sept. 11, 1960, gage height, 15.86 ft, from recorded range in stage; minimum, 3.6 ft^3/s May 17, 1952; minimum gage height, 0.97 ft June 15, 1984 (estimated).

EXTREMES FOR CURRENT YEAR.--Maximum discrarge, 1,160 ft^3/s Dec. 30, gage height, 9.83 ft, no other peak above base of 1,000 ft^3/s; minimum discharge, 16 ft^3/s June 15, gage height, 0.97 ft (estimated).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	51	76	574	121	145	56	27	43	34	100	57
2	72	48	78	377	112	116	51	26	35	56	145	58
3	79	47	74	266	108	105	48	25	31	70	220	58
4	72	46	74	218	106	96	62	24	28	120	130	53
5	68	45	73	192	103	95	162	23	27	160	150	62
6	63	45	70	182	100	87	149	22	25	225	211	67
7	61	47	81	172	91	85	87	21	24	130	245	69
8	55	58	76	159	87	80	76	21	22	110	283	62
9	55	63	58	145	81	71	70	20	21	105	291	56
10	64	57	53	147	78	67	63	20	20	100	306	52
11	63	54	55	207	77	65	59	32	19	110	240	49
12	67	50	171	222	86	72	54	35	18	100	150	46
13	86	52	260	177	121	147	50	38	17	90	125	44
14	87	54	211	171	259	154	47	36	17	100	115	42
15	106	48	191	166	305	111	53	33	16	120	105	40
16	110	46	266	160	197	95	69	31	18	138	101	38
17	99	44	225	150	144	84	59	28	24	118	125	49
18	106	42	213	142	132	78	49	24	49	95	155	42
19	99	40	238	151	122	76	46	19	46	143	140	36
20	95	47	324	170	127	79	44	17	35	180	140	42
21	86	95	455	159	129	68	42	18	28	135	166	38
22	73	84	332	149	245	61	41	21	27	122	230	35
23	73	76	240	137	317	72	39	39	21	135	231	35
24	72	72	200	122	256	100	37	43	19	120	167	31
25	66	84	175	116	175	97	36	41	25	113	133	29
26	56	70	150	113	136	83	34	41	32	140	114	28
27	53	62	135	113	123	74	33	49	27	118	103	36
28	52	64	145	115	188	70	31	57	24	99	92	187
29	52	74	203	120	211	64	30	65	20	75	73	239
30	55	76	796	126	---	63	28	73	28	72	75	151
31	54	---	829	131	---	60	---	54	---	82	64	---
TOTAL	2276	1741	6527	5549	4336	2720	1705	1023	786	3515	4915	1831
MEAN	73.4	58.0	211	179	150	87.7	56.8	33.0	26.2	113	159	61.0
MAX	110	95	829	574	317	154	162	73	49	225	306	239
MIN	52	40	53	113	77	60	28	17	16	34	64	28
AC-FT	4510	3450	12950	11010	8600	5400	3380	2030	1560	6970	9750	3630

CAL YR 1983 TOTAL 71539 MEAN 196 MAX 1240 MIN 37 AC-FT 141900
WTR YR 1984 TOTAL 36924 MEAN 101 MAX 829 MIN 16 AC-FT 73240

NOTE.--No gage height record Dec. 24-27, Jan. 30, Apr. 8-14, Apr. 20 to May 19, May 27-29, June 6-12, 14-15, 24-29, July 3-17, 20-26, July 31 to Aug. 5, Aug. 11-18, Sept. 9-16.

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT 20...	1215	2.46	76	665	562	7.1	7.5	24.5	60	--	5.5	41
NOV 08...	1410	1.88	58	540	--	6.5	--	21.0	--	2.5	6.1	--
JAN 13...	1430	3.56	167	475	--	6.7	--	14.5	--	3.0	8.6	--
FEB 27...	1415	2.80	122	490	--	6.9	--	19.0	--	1.0	5.7	--
MAY 01...	1410	1.27	28	589	--	6.5	--	25.0	--	.80	8.6	--
24...	1025	1.59	38	456	--	6.6	--	26.0	--	--	6.1	--
JUL 26...	1500	2.98	129	570	--	6.0	--	29.0	--	--	6.8	--
SEP 18...	1030	1.58	41	579	--	7.0	--	27.5	--	2.3	5.7	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 20...	13	52	5.1	130	47	3.8	15	376	--	--	--
NOV 08...	--	--	--	--	--	--	--	--	.160	3.3	.840
JAN 13...	--	--	--	--	--	--	--	--	.100	1.3	.600
FEB 27...	--	--	--	--	--	--	--	--	.100	1.5	3.20
MAY 01...	--	--	--	--	--	--	--	--	.400	3.6	.300
24...	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	.010	.39	.050
SEP 18...	--	--	--	--	--	--	--	--	<.010	.14	.480

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT 20...	--	--	--	430	3	1	2	480	410	70	3
NOV 08...	1.1	7.20	6.90	--	--	--	--	--	--	--	--
JAN 13...	1.6	5.50	5.20	--	--	--	--	--	--	--	--
FEB 27...	3.2	6.00	5.70	--	--	--	--	--	--	--	--
MAY 01...	.52	4.40	4.20	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	.89	4.80	4.60	--	--	--	--	--	--	--	--
SEP 18...	.68	5.00	4.90	--	--	--	--	--	--	--	--

ALAFIA RIVER BASIN

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT											
20...	0	3	20	0	20	.2	4	230	20	13	46
MAY											
24...	--	--	--	--	--	--	--	--	--	7.2	--

02301000 NORTH PRONG ALAPIA RIVER AT KEYSVILLE, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	520	---	---	---	---	---	620	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	545
3	---	---	---	---	---	---	520	---	---	---	---	---
4	492	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	445	---	---	690	---	559	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	590	465	530	---	---	---	---	667	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	580	---	---	---	---	---	---	---	---	---	576
10	---	---	---	---	---	---	---	---	---	---	---	---
11	175	---	---	435	---	494	---	540	---	---	---	---
12	---	---	---	---	540	---	---	---	610	---	481	---
13	---	---	338	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	582	---	---	477	---	---
15	---	620	---	560	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	603
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	520	---	---	608	---	---	---	---	---
19	499	---	---	---	476	---	---	640	660	---	557	---
20	---	---	476	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	508	---	---	---	474	---	---
22	---	600	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	612
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	568	---	---	---	---	---
26	540	---	---	---	473	---	---	650	---	519	529	---
27	---	---	475	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	520	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	650	---	---	---
30	---	570	---	---	---	---	---	---	---	---	---	---
31	---	---	---	520	---	---	---	---	---	---	---	---
MEAN	427	578	470	500	505	492	570	613	653	534	532	584

WTR YR 1984 MEAN 538 MAX 690 MIN 175

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	22.0	---	---	---	---	---	24.0	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	27.0
3	---	---	---	---	---	---	22.0	---	---	---	---	---
4	26.0	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	20.0	---	---	26.0	---	26.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	21.0	12.0	13.0	---	---	---	---	25.0	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	22.0	---	---	---	---	---	---	---	---	---	25.5
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	15.5	---	19.0	---	23.0	---	---	---	---
12	---	---	---	---	19.0	---	---	---	27.0	---	---	---
13	---	---	18.0	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	23.5	---	---	26.0	---	---
15	---	18.0	---	19.0	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	27.0
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	18.5	---	---	18.0	---	---	---	---	---
19	---	---	---	---	20.0	---	---	24.0	26.0	---	28.0	---
20	---	---	13.0	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	21.0	---	---	---	24.5	---	---
22	---	19.0	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	25.5
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	21.0	---	---	---	---	---
26	21.5	---	---	---	19.0	---	---	25.0	---	25.0	27.0	---
27	---	---	9.5	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	23.0	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	26.0	---	---	---
30	---	19.5	---	---	---	---	---	---	---	---	---	---
31	---	---	---	15.0	---	---	---	---	---	---	---	---
MEAN	24.0	20.0	15.5	16.0	18.0	21.0	21.0	24.0	26.5	25.0	27.0	26.5

WTR YR 1984 MEAN 21.5 MAX 28.0 MIN 9.5

ALAFIA RIVER BASIN

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL--Continued

FLUORIDE, DISSOLVED (MG/L AS F), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.6	---	---	---	---	---	3.2	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	3.5
3	---	---	---	---	---	---	2.8	---	---	---	---	---
4	7.2	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	2.4	---	---	3.2	---	4.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	3.2	2.8	3.2	---	---	---	---	3.4	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	4.0	---	---	---	---	---	---	---	---	---	4.0
10	---	---	---	---	---	---	---	---	---	---	---	---
11	4.4	---	---	2.4	---	2.4	---	2.4	---	---	---	---
12	---	---	---	---	3.2	---	---	---	4.0	---	3.6	---
13	---	---	1.6	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	2.8	---	---	2.9	---	---
15	---	4.0	---	4.4	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	3.4
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	3.2	---	---	2.8	---	---	---	---	---
19	5.2	---	---	---	2.8	---	---	3.6	2.8	---	3.8	---
20	---	---	3.2	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	2.4	---	---	---	2.8	---	---
22	---	4.0	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	3.2
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	2.8	---	---	---	---	---
26	4.4	---	---	---	2.8	---	---	3.2	---	2.6	4.4	---
27	---	---	2.8	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	2.8	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	3.2	---	---	---
30	---	4.4	---	---	---	---	---	---	---	---	---	---
31	---	---	---	4.4	---	---	---	---	---	---	---	---
MEAN	5.3	4.0	2.7	3.4	3.0	2.5	2.8	3.1	3.3	2.9	4.0	3.5

WTR YR 1984 MEAN 3.4 MAX 7.2 MIN 1.6

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL--Continued

PHOSPHORUS, ORTHOPHOSPHATE, TOTAL (MG/L AS P), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.60	---	---	---	---	---	5.10	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	6.30
3	---	---	---	---	---	---	4.20	---	---	---	---	---
4	6.10	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	3.90	---	---	5.60	---	4.55	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	5.50	4.90	4.80	---	---	---	---	3.25	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	8.70	---	---	---	---	---	---	---	---	---	6.70
10	---	---	---	---	---	---	---	---	---	---	---	---
11	6.00	---	---	5.40	---	4.30	---	4.40	---	---	---	---
12	---	---	---	---	5.20	---	---	---	3.80	---	4.80	---
13	---	---	3.60	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	5.40	---	---	4.05	---	---
15	---	6.00	---	5.20	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	6.10
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	6.20	---	---	5.80	---	---	---	---	---
19	6.20	---	---	---	4.40	---	---	5.70	5.10	---	5.90	---
20	---	---	4.90	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	4.60	---	---	---	3.85	---	---
22	---	9.40	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	5.85
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	5.00	---	---	---	---	---
26	6.40	---	---	---	4.60	---	---	5.10	---	4.45	6.80	---
27	---	---	4.20	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	5.40	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	5.10	---	---	---
30	---	5.50	---	---	---	---	---	---	---	---	---	---
31	---	---	---	5.30	---	---	---	---	---	---	---	---
MEAN	6.18	7.04	4.55	5.40	4.75	4.55	5.10	5.08	4.90	3.90	5.51	6.24

WTR YR 1984 MEAN 5.30 MAX 9.40 MIN 3.25

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL

LOCATION.--Lat 27°47'47", long 82°07'04", in SW¼ sec.9, T.31 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, at right bank, 12 ft upstream from bridge on county road, 1.5 mi upstream from Halls Branch, 5.0 mi southeast of Lithia, and 7.6 mi upstream from mouth.

DRAINAGE AREA.--107 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 13, 1965, at datum 41.56 ft lower; Oct. 13, 1965, to Apr. 11, 1975, at datum 10.00 ft higher; Nov. 29, 1971, to July 25, 1972, nonrecording gage. Prior to July 25, 1972, at site 12 ft downstream; July 25, 1972, to Dec. 17, 1973, at site 60 ft upstream.

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years (1963-84), 109 ft^3/s, 78,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s Aug. 14, 1967, gage height, 17.88 ft; minimum, 0.13 ft^3/s May 25, 1981, gage height, 9.32 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 390 ft^3/s Dec. 31, gage height, 15.01 ft, no peak above base of 500 ft^3/s; minimum, 14 ft^3/s June 17, gage height, 9.83 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	50	74	378	112	138	131	84	73	35	223	111
2	154	43	90	354	99	136	113	73	65	61	284	98
3	157	39	102	334	88	126	99	63	57	99	294	92
4	152	37	105	325	78	109	88	54	51	120	341	91
5	142	39	95	284	69	97	85	48	45	192	344	104
6	126	42	88	233	60	86	91	44	42	222	321	120
7	107	42	83	208	54	79	100	41	40	184	249	120
8	87	48	81	196	52	73	105	39	37	153	223	117
9	72	52	77	169	51	71	102	37	31	145	218	111
10	64	55	65	142	50	76	101	35	26	136	161	101
11	63	59	55	138	52	84	100	36	22	144	148	93
12	71	58	69	130	59	96	98	39	19	141	163	91
13	77	54	70	127	75	137	96	40	18	127	148	90
14	82	53	67	175	103	141	93	37	16	139	125	82
15	84	60	85	168	127	164	102	33	16	161	118	74
16	90	55	98	161	143	171	116	30	15	194	144	65
17	101	51	174	154	129	150	119	26	27	182	174	58
18	108	48	165	136	113	131	119	22	108	155	181	53
19	111	44	157	137	103	109	123	20	93	177	170	51
20	108	45	149	148	106	90	127	18	71	222	150	51
21	98	53	125	158	106	81	122	17	55	210	158	49
22	89	53	120	160	143	84	113	18	40	191	168	48
23	83	61	134	152	167	107	102	30	32	179	153	46
24	88	77	134	139	173	127	95	35	50	207	141	46
25	104	88	118	132	157	138	89	47	63	243	140	45
26	121	87	102	130	136	144	84	69	62	232	158	44
27	118	95	95	127	131	156	84	87	55	248	173	46
28	93	88	92	123	146	162	88	93	42	248	162	107
29	74	70	179	120	141	165	92	85	36	216	146	115
30	64	60	322	113	---	162	91	84	35	181	135	117
31	58	---	386	107	---	146	---	79	---	184	127	---
TOTAL	3108	1706	3756	5558	3023	3736	3068	1463	1342	5328	5840	2436
MEAN	100	56.9	121	179	104	121	102	47.2	44.7	172	188	81.2
MAX	162	95	386	378	173	171	131	93	108	248	344	120
MIN	58	37	55	107	50	71	84	17	15	35	118	44
AC-FT	6160	3380	7450	11020	6000	7410	6090	2900	2660	10570	11580	4830

CAL YR 1983 TOTAL 51114 MEAN 140 MAX 559 MIN 12 AC-FT 101400
WTR YR 1984 TOTAL 40364 MEAN 110 MAX 386 MIN 15 AC-FT 80060

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT											
20...	1345	11.90	98	332	311	7.1	7.9	25.0	80	--	5.6
NOV											
08...	1230	10.79	49	273	--	5.3	--	20.0	--	1.0	7.5
JAN											
11...	1030	12.42	144	261	--	6.7	--	14.0	--	1.4	8.2
MAR											
01...	1000	12.36	132	265	--	7.3	--	12.5	--	.60	8.2
MAY											
01...	1135	11.50	84	338	--	5.9	--	24.0	--	.30	5.7
24...	1108	10.45	33	295	--	6.8	--	26.5	--	--	6.8
JUL											
26...	1100	13.55	249	275	--	7.2	--	26.0	--	--	5.2
SEP											
18...	1300	11.00	54	328	--	7.1	--	28.0	--	1.2	5.4

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
20...	26	11	14	1.3	50	21	2.2	8.7	192	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	.010	.87
JAN											
11...	--	--	--	--	--	--	--	--	--	.010	.62
MAR											
01...	--	--	--	--	--	--	--	--	--	.010	--
MAY											
01...	--	--	--	--	--	--	--	--	--	<.010	.10
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	.010	.12
SEP											
18...	--	--	--	--	--	--	--	--	--	<.010	.16

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT											
20...	--	--	--	--	130	1	<1	1	240	150	90
NOV											
08...	.050	.58	1.80	1.60	--	--	--	--	--	--	--
JAN											
11...	.030	.61	2.10	2.10	--	--	--	--	--	--	--
MAR											
01...	.020	.61	2.10	2.00	--	--	--	--	--	--	--
MAY											
01...	.010	.56	1.40	1.30	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	.050	.63	1.10	1.00	--	--	--	--	--	--	--
SEP											
18...	.050	.54	1.50	1.40	--	--	--	--	--	--	--

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB) (01050)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT											
20...	1	0	1	<10	<10	<.1	1	130	10	15	60
MAY											
24...	--	--	--	--	--	--	--	--	--	10	--

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	290	---	---	---	---	---	347	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	305
3	---	---	---	---	---	---	318	---	---	---	---	---
4	306	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	291	---	---	360	---	245	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	285	276	264	---	---	---	---	205	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	258	---	---	---	---	---	---	---	---	---	292
10	---	---	---	---	---	---	---	---	---	---	---	---
11	270	---	---	265	---	318	---	363	---	---	---	---
12	---	---	---	---	279	---	---	---	356	---	273	---
13	---	---	240	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	327	---	---	299	---	---
15	---	315	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	325
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	285	---	---	272	---	---	274	---	---
19	275	---	---	---	274	---	---	345	296	---	295	---
20	---	---	225	---	---	---	---	---	---	---	---	---
21	315	---	---	---	---	285	---	---	---	---	---	---
22	---	266	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	337
25	---	---	---	293	---	---	328	---	---	---	---	---
26	---	---	---	---	265	---	---	435	---	255	276	---
27	---	---	267	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	287	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	300	---	---	---
30	---	286	---	---	---	---	---	---	---	---	---	---
31	---	---	---	293	---	---	---	---	---	---	---	---
MEAN	292	283	254	282	271	295	311	373	328	258	272	315

WTR YR 1984 MEAN 294 MAX 435 MIN 205

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	22.5	---	---	---	---	---	23.5	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	28.0
3	---	---	---	---	---	---	20.0	---	---	---	---	---
4	26.0	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	19.0	---	---	26.0	---	26.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	21.0	13.0	13.0	---	---	---	---	25.0	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	21.5	---	---	---	---	---	---	---	---	---	26.0
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	14.5	---	18.0	---	24.0	---	---	---	---
12	---	---	---	---	18.0	---	---	---	27.0	---	---	---
13	---	---	18.5	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	24.0	---	---	26.5	---	---
15	---	19.0	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	28.0
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	18.0	---	---	18.5	---	---	25.5	---	---
19	---	---	---	---	20.0	---	---	24.5	26.0	---	28.0	---
20	---	---	12.0	---	---	---	---	---	---	---	---	---
21	22.0	---	---	---	---	22.0	---	---	---	---	---	---
22	---	19.5	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	25.5
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	19.5	---	---	21.0	---	---	---	---	---
26	---	---	---	---	19.0	---	---	25.0	---	25.5	26.5	---
27	---	---	9.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	22.0	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	27.0	---	---	---
30	---	19.0	---	---	---	---	---	---	---	---	---	---
31	---	---	---	15.0	---	---	---	---	---	---	---	---
MEAN	24.0	20.5	15.0	16.0	17.5	20.5	21.0	24.5	26.5	25.5	27.0	27.0

WTR YR 1984 MEAN 21.5 MAX 28.0 MIN 9.0

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

FLUORIDE, DISSOLVED (MG/L AS F), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.0	---	---	---	---	---	2.0	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	2.6
3	---	---	---	---	---	---	1.9	---	---	---	---	---
4	3.2	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	1.8	---	---	2.1	---	1.9	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	2.0	1.8	1.6	---	---	---	---	2.9	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	1.7	---	---	---	---	---	---	---	---	---	2.1
10	---	---	---	---	---	---	---	---	---	---	---	---
11	2.8	---	---	1.9	---	2.0	---	1.9	---	---	---	---
12	---	---	---	---	1.6	---	---	---	2.0	---	1.8	---
13	---	---	1.7	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	1.9	---	---	2.4	---	---
15	---	2.0	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	2.3
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	1.9	---	---	1.6	---	---	2.1	---	---
19	2.3	---	---	---	1.8	---	---	1.7	1.0	---	2.3	---
20	---	---	1.5	---	---	---	---	---	---	---	---	---
21	2.3	---	---	---	---	2.0	---	---	---	---	---	---
22	---	1.5	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	2.3
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	2.3	---	---	1.9	---	---	---	---	---
26	---	---	---	---	1.8	---	---	1.6	---	1.6	2.3	---
27	---	---	1.9	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	1.8	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	1.1	---	---	---
30	---	1.8	---	---	---	---	---	---	---	---	---	---
31	---	---	---	1.9	---	---	---	---	---	---	---	---
MEAN	2.7	1.8	1.8	2.0	1.7	1.9	1.8	1.8	1.6	2.3	2.1	2.3

WTR YR 1984 MEAN 2.0 MAX 3.2 MIN 1.0

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL--Continued

PHOSPHORUS, ORTHOPHOSPHATE, TOTAL (MG/L AS P), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.00	---	---	---	---	---	1.40	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	2.08
3	---	---	---	---	---	---	1.90	---	---	---	---	---
4	7.70	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	2.00	---	---	1.40	---	1.34	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	2.00	1.90	1.70	---	---	---	---	.82	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	2.00	---	---	---	---	---	---	---	---	---	1.36
10	---	---	---	---	---	---	---	---	---	---	---	---
11	3.10	---	---	2.00	---	1.90	---	1.60	---	---	---	---
12	---	---	---	---	1.40	---	---	---	1.50	---	1.62	---
13	---	---	1.80	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	1.60	---	---	1.04	---	---
15	---	1.90	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	1.36
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	1.90	---	---	1.50	---	---	1.12	---	---
19	2.20	---	---	---	1.80	---	---	1.30	.88	---	2.68	---
20	---	---	1.60	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	2.40	---	---	---	---	---	---
22	---	1.50	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	1.36
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	1.60	---	---	1.60	---	---	---	---	---
26	2.00	---	---	---	1.90	---	---	1.30	---	1.04	2.08	---
27	---	---	2.10	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	1.70	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	.68	---	---	---
30	---	1.60	---	---	---	---	---	---	---	---	---	---
31	---	---	---	1.80	---	---	---	---	---	---	---	---
MEAN	3.75	1.80	1.88	1.84	1.70	2.00	1.65	1.40	1.12	1.01	1.93	1.54

WTR YR 1984 MEAN 1.80 MAX 7.70 MIN .68

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301500 ALAFIA RIVER AT LITHIA, FL

LOCATION.--Lat 27°52'19", long 82°12'41", in NE¼ sec.16, T.30 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, near center of span on downstream side of bridge on State Highway 640, 2.0 mi upstream from Little Fishhawk Creek, 4.3 mi west of Lithia, and 16 mi upstream from mouth.

DRAINAGE AREA.--335 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1932 to current year. Monthly discharge only prior to February 1933, published in WSP 1304.

REVISED RECORDS.--WSP 782: 1933(M). WSP 1234: Drainage area. WSP 1274: 1933-35, 1939, 1945, 1947-50.

GAGE.--Water-stage recorder. Datum of gage is 7.00 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 8, 1939, nonrecording gage at site 200 ft upstream; Aug. 8, 1939, to Sept. 5, 1963, water-stage recorder at site 60 ft downstream; Sept. 6, 1963, to Oct. 14, 1965, water-stage recorder at site 50 ft downstream. Prior to Oct. 14, 1965, at datum 2.86 ft higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--52 years, 360 ft^3/s, 14.59 in/yr, 260,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,900 ft^3/s Sept. 7, 1933, gage height, 28.5 ft, present datum, from floodmarks, from rating curve extended above 21,000 ft^3/s; minimum, 6.6 ft^3/s June 5, 6, 1945, gage height, 1.95 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s Dec. 31, gage height, 11.33 ft, no peak above base of 1,700 ft^3/s; minimum daily discharge, 52 ft^3/s June 17 (estimated), gage height, 2.46 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	151	182	1280	274	410	235	137	145	93	529	236
2	289	137	194	1010	250	349	211	125	128	140	1010	212
3	293	122	208	796	233	324	189	114	114	275	933	197
4	287	112	214	675	228	296	253	104	103	372	743	188
5	266	107	213	609	230	272	357	98	97	388	628	248
6	251	103	200	548	217	253	339	97	92	706	690	314
7	227	107	205	487	203	235	254	93	85	565	651	279
8	203	115	203	444	192	218	228	92	80	413	788	251
9	179	141	179	413	185	197	216	114	76	408	846	230
10	170	152	161	415	181	189	215	121	71	439	747	210
11	170	148	149	522	181	190	207	100	68	433	445	188
12	185	143	318	509	186	206	194	95	65	435	401	174
13	199	137	413	471	217	377	190	89	61	431	408	170
14	213	136	387	457	485	423	185	83	58	547	362	166
15	224	135	480	446	509	350	229	79	56	401	335	155
16	252	137	472	426	454	328	253	75	54	506	313	137
17	262	132	497	408	365	307	234	72	52	392	383	134
18	260	122	540	384	326	275	214	68	212	372	567	129
19	272	115	505	393	300	251	205	65	210	470	464	116
20	273	124	848	424	293	230	203	63	148	623	406	120
21	258	213	754	422	316	205	200	62	116	502	463	115
22	245	190	667	410	518	185	189	60	98	450	613	107
23	215	171	527	389	613	210	178	86	92	461	568	103
24	203	178	466	366	579	301	168	102	94	402	461	101
25	200	214	408	343	462	302	156	125	147	437	397	97
26	210	204	369	340	379	294	145	123	136	472	439	94
27	217	193	352	333	342	283	138	153	121	458	401	98
28	220	195	325	322	490	278	136	163	101	433	353	473
29	196	191	455	317	486	274	138	168	91	377	311	535
30	170	177	1190	318	---	264	139	183	91	341	284	422
31	159	---	1350	307	---	255	---	174	---	348	263	---
TOTAL	7085	4502	13431	14984	9694	8531	6198	3283	3062	13090	16202	5999
MEAN	229	150	433	483	334	275	207	106	102	422	523	200
MAX	317	214	1350	1280	613	423	357	183	212	706	1010	535
MIN	159	103	149	307	181	185	136	60	52	93	263	94
CFSM	.68	.45	1.29	1.44	1.00	.82	.62	.32	.30	1.26	1.56	.60
IN.	.79	.50	1.49	1.66	1.08	.95	.69	.36	.34	1.45	1.80	.67
AC-FT	14050	8930	26640	29720	19230	16920	12290	6510	6070	25960	32140	11900

CAL YR 1983 TOTAL 160242 MEAN 439 MAX 2330 MIN 83 CFSM 1.31 IN 17.79 AC-FT 317800
WTR YR 1984 TOTAL 106061 MEAN 290 MAX 1350 MIN 52 CFSM .87 IN 11.78 AC-FT 210400

NOTE.--No gage height record May 13-23, June 7-17.

ALAFIA RIVER BASIN

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02301500 ALAFIA RIVER AT LITHIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)
OCT												
20...	1000	--	4.51	--	240	410	359	7.2	7.8	24.0	70	2.5
DEC												
07...	1130	--	4.06	--	187	391	410	7.2	7.3	21.5	--	2.4
FEB												
22...	1530	--	6.66	--	550	290	299	5.4	7.0	21.0	--	4.4
MAY												
24...	1230	--	3.13	--	98	374	395	7.1	7.4	26.0	30	--
JUN												
05...	1230	--	3.05	--	90	460	470	7.7	7.4	24.5	--	1.0
SEP												
27...	1140	.50	--	2.00	--	424	--	7.1	--	25.0	--	--
27...	1141	.50	--	4.00	--	424	--	7.1	--	25.0	--	--
27...	1142	.50	--	6.00	--	424	--	7.1	--	25.0	--	--
27...	1143	.50	--	8.00	--	424	--	7.2	--	25.0	--	--
27...	1144	.50	--	10.0	--	424	--	7.2	--	25.0	--	--
27...	1145	.50	--	12.0	--	424	--	7.2	--	25.0	--	--
27...	1146	.50	--	14.0	--	424	--	7.2	--	25.0	--	--
27...	1147	.50	--	16.0	--	423	--	7.2	--	25.0	--	--
27...	1148	.50	--	18.0	--	423	--	7.2	--	25.0	--	--
27...	1149	.50	--	20.0	--	423	--	7.2	--	25.0	--	--
27...	1150	.50	--	22.0	--	423	--	7.2	--	25.0	--	--
27...	1151	.50	--	24.0	--	423	--	7.2	--	25.0	--	--
27...	1152	.50	--	26.0	--	423	--	7.2	--	25.0	--	--
27...	1153	.50	--	28.0	--	423	--	7.2	--	25.0	--	--
27...	1154	.50	--	30.0	--	423	--	7.2	--	25.0	--	--
27...	1155	.50	--	32.0	--	423	--	7.2	--	25.0	--	--
27...	1156	.50	--	34.0	--	423	--	7.2	--	25.0	--	--
27...	1200	--	3.03	--	92	424	414	7.2	7.6	25.0	--	.50

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT												
20...	9.0	--	--	--	30	11	26	3.0	66	35	2.3	12
DEC												
07...	7.8	1200	440	530	34	12	29	2.2	77	30	1.9	8.3
FEB												
22...	8.9	K16000	K7200	2600	24	9.1	19	2.9	53	23	1.4	5.3
MAY												
24...	6.8	--	--	--	36	13	27	1.9	87	25	1.9	6.8
JUN												
05...	7.2	370	21	K18	38	14	33	1.0	95	33	2.0	6.5
SEP												
27...	7.3	--	--	--	--	--	--	--	--	--	--	--
27...	7.2	--	--	--	--	--	--	--	--	--	--	--
27...	7.3	--	--	--	--	--	--	--	--	--	--	--
27...	7.2	--	--	--	--	--	--	--	--	--	--	--
27...	7.1	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	6.9	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	6.9	--	--	--	--	--	--	--	--	--	--	--
27...	6.9	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	6.9	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	560	K47	230	38	14	29	1.4	74	28	2.0	8.5

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02301500 ALAFIA RIVER AT LITHIA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 20...	241	.020	1.0	--	.050	--	.70	4.00	--	--	3.40	--
DEC 07...	274	--	--	1.3	--	.140	1.8	4.00	12	3.90	--	3.50
FEB 22...	184	--	--	.76	--	.080	1.0	2.60	8.0	2.30	--	2.20
MAY 24...	249	.010	.71	--	.030	--	.45	2.40	--	--	2.30	--
JUN 05...	321	--	--	.42	--	.020	1.1	3.10	--	3.30	--	2.90
SEP 27...	265	--	--	.50	--	<.010	.90	2.90	--	2.80	--	2.70

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT 20...	260	--	2	--	--	--	1	--	--	--	1	330
DEC 07...	--	70	--	4	18	<.5	--	<1	30	<3	1	--
FEB 22...	--	60	--	1	13	<.5	--	<1	<1	<3	3	--
MAY 24...	170	--	1	--	--	--	1	--	--	--	5	160
JUN 05...	--	110	--	2	7	<.0	--	<1	<1	<3	1	--
SEP 27...	--	30	--	2	10	<.0	--	<1	<1	<3	<1	--

DATE	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT 20...	240	90	1	0	1	--	10	0	10	<.1	--	--
DEC 07...	--	67	--	--	2	<4	--	--	6	--	.5	<10
FEB 22...	--	170	--	--	1	<4	--	--	13	--	.1	<10
MAY 24...	--	50	3	--	3	--	20	--	10	.1	--	--
JUN 05...	--	31	--	--	<1	8	--	--	6	--	.2	<10
SEP 27...	--	33	--	--	<1	<4	--	--	5	--	.2	<10

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	BICAR-BONATE, FET-LAB (MG/L AS HCO3) (95440)
OCT 20...	2	--	--	--	160	--	20	15	--	--	45	55
DEC 07...	--	2	<1	<1	140	<6	26	--	7	57	65	--
FEB 22...	--	2	<1	2	81	<6	37	--	66	26	48	--
MAY 24...	3	--	--	--	210	--	<10	10	--	--	68	--
JUN 05...	--	1	<1	2	140	7	7	--	8	25	71	--
SEP 27...	--	1	<1	<1	160	<6	<3	--	7	29	83	--

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL

LOCATION.--Lat 27°52'00", long 82°13'50", in SW¼ sec.17, T.30 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, 500 ft upstream from Alafia River, and 5.3 mi northwest of Lithia.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1934, 1935, 1941, 1943, 1946, 1954, 1960 (one discharge measurement in each year); April 1956 to September 1958; June 1966 to current year (discharge measurements only).
TEMPERATURE OBSERVATIONS: October 1977 to current year. See REMARKS.

GAGE.--Nonrecording gage.

REMARKS.--Total discharge of springs consists of discharge from a major spring and a minor spring into the Alafia River through separate runs and diversion by pumpage from the major spring pool. Discharge is affected by backwater from the Alafia River during medium and high stages. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

AVERAGE DISCHARGE.--131 measurements, 48.8 ft^3/s, 31.5 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 83 ft^3/s Oct. 3, 1967; minimum measured, 7.0 ft^3/s May 8, 1981.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Time	Major Spring Instantaneous Discharge (cfs)	Time	Minor Spring Instantaneous Discharge (cfs)	Total Flow Measured (cfs)	Diversion by Pumping (cfs)
Nov. 14	1215	38.1	1310	8.77	47	8.9
Mar. 5	1430	33.0	1515	8.44	41	8.6
Apr. 30	0950	24.8	1138	6.80	32	9.0
July 30	1115	36.4	1136	7.24	44	8.6
Sept. 20	1130	43.9	1020	9.59	53	8.6

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1956-58, 1960, 1965, 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT 20...	1115	9.19	--	520	7.2	25.0	.30	4.4
NOV 14...	1215	8.69	48	450	--	25.0	--	--
MAR 05...	1430	9.09	41	375	--	25.0	--	--
APR 30...	0950	8.54	32	420	--	25.0	--	--
MAY 24...	1150	8.19	--	373	6.8	25.5	--	2.8
JUL 30...	1115	9.54	44	375	--	26.0	--	--
SEP 20...	1130	8.49	53	459	--	25.5	--	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 20...	<.010	2.6	.050	.13	.080	.040	16
MAY 24...	<.010	2.8	.020	.05	.070	.060	2.2

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	435	---	---	---	---	---	424	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	480
3	---	---	---	---	---	---	431	---	---	---	---	---
4	464	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	445	---	---	402	---	437	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	440	433	455	---	---	---	---	433	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	442	---	---	---	---	---	---	---	---	---	475
10	---	---	---	---	---	---	---	---	---	---	---	---
11	540	---	---	440	---	475	---	410	---	---	---	---
12	---	---	---	---	450	---	---	---	403	---	459	---
13	---	---	440	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	428	---	---	435	---	---
15	---	440	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	474
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	450	---	---	416	---	396	---	---	---
19	460	---	---	---	510	---	---	403	---	---	475	---
20	---	---	430	---	---	---	---	---	---	440	---	---
21	---	---	---	---	---	425	---	---	---	---	---	---
22	---	444	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	468
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	445	---	438	428	---	---	---	---	---
26	444	---	---	---	438	---	---	390	---	444	476	---
27	---	---	438	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	420	---	---	---
30	---	425	---	---	---	---	---	---	---	---	---	---
31	---	---	---	440	---	---	---	---	---	---	---	---
MEAN	477	437	437	442	463	446	426	407	405	438	462	474

WTR YR 1984 MEAN 443 MAX 540 MIN 390

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	25.0	---	---	---	---	---	24.5	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	27.0
3	---	---	---	---	---	---	26.0	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	27.0	---	---	25.0	---	25.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	23.0	24.0	24.0	---	---	---	---	25.0	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	24.5	---	---	---	---	---	---	---	---	---	26.0
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	22.0	---	23.0	---	24.0	---	---	---	---
12	---	---	---	---	24.0	---	---	---	24.0	---	25.0	---
13	---	---	24.0	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	24.0	---	---	24.5	---	---
15	---	26.0	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	26.0
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	25.0	---	---	23.0	---	25.0	---	---	---
19	---	---	---	---	25.0	---	---	24.5	---	---	28.0	---
20	---	---	17.0	---	---	---	---	---	---	25.0	---	---
21	---	---	---	---	---	24.0	---	---	---	---	---	---
22	---	25.0	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	25.5
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	26.0	---	23.0	24.0	---	---	---	---	---
26	25.0	---	---	---	25.0	---	---	25.0	---	25.0	25.0	---
27	---	---	23.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	24.5	---	---	---
30	---	24.0	---	---	---	---	---	---	---	---	---	---
31	---	---	---	25.0	---	---	---	---	---	---	---	---
MEAN	25.0	25.0	22.0	24.5	24.5	24.5	24.5	24.5	24.5	25.0	26.0	26.0

WTR YR 1984 MEAN 24.5 MAX 28.0 MIN 17.0

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

FLUORIDE, DISSOLVED (MG/L AS F), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.30	---	---	---	---	---	.20	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	.37
3	---	---	---	---	---	---	.30	---	---	---	---	---
4	.30	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	.20	---	---	.20	---	.25	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	.80	.30	.30	---	---	---	---	.34	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	.30	---	---	---	---	---	---	---	---	---	.24
10	---	---	---	---	---	---	---	---	---	---	---	---
11	.20	---	---	.30	---	.30	---	---	---	---	---	---
12	---	---	---	---	.50	---	---	---	.20	---	.27	---
13	---	---	.40	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	.40	---	---	.28	---	---
15	---	.30	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	.33
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	.60	---	---	.30	---	.30	---	---	---
19	.30	---	---	---	.30	---	---	---	---	---	.35	---
20	---	---	.30	---	---	---	---	---	---	.29	---	---
21	---	---	---	---	---	.30	---	---	---	---	---	---
22	---	.30	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	.24
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	.30	---	.30	.30	---	---	---	---	---
26	.30	---	---	---	.30	---	---	---	---	.33	.27	---
27	---	---	.30	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	.30	---	---	---
30	---	.30	---	---	---	---	---	---	---	---	---	---
31	---	---	---	.30	---	---	---	---	---	---	---	---
MEAN	.28	.30	.44	.36	.35	.28	.33	.20	.25	.31	.29	.30

WTR YR 1984 MEAN .32 MAX .80 MIN .20

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

PHOSPHORUS, ORTHOPHOSPHATE, TOTAL (MG/L AS P), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.05	---	---	---	---	---	.05	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	.07
3	---	---	---	---	---	---	.06	---	---	---	---	---
4	.06	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	.14	---	---	.05	---	.05	---
6	---	---	.05	---	---	---	---	---	---	---	---	---
7	---	---	---	.05	.05	---	---	---	---	.06	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	.05	---	---	---	---	---	---	---	---	---	.06
10	---	---	---	---	---	---	---	---	---	---	---	---
11	.03	---	---	.05	---	.28	---	---	---	---	---	---
12	---	---	---	---	.05	---	---	---	.05	---	.06	---
13	---	---	.05	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	.07	---	---	.06	---	---
15	---	.05	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	.06
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	.05	---	---	.05	---	.05	---	---	---
19	.06	---	---	---	.26	---	---	---	---	---	.06	---
20	---	---	.07	---	---	---	---	---	---	.05	---	---
21	---	---	---	---	---	.05	---	---	---	---	---	---
22	---	.05	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	.07
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	.07	---	.06	.05	---	---	---	---	---
26	.06	---	---	---	.08	---	---	---	---	.06	.05	---
27	---	---	.06	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	.06	---	---	---
30	---	.05	---	---	---	---	---	---	---	---	---	---
31	---	---	---	.05	---	---	---	---	---	---	---	---
MEAN	.05	.05	.06	.05	.11	.13	.06	.05	.05	.06	.06	.07

WTR YR 1984 MEAN .07 MAX .28 MIN .03

ALAFIA RIVER BASIN

02301706 ALAFIA RIVER NEAR RIVERVIEW, FL

LOCATION.--Lat 27°52'57", long 82°18'36", in SE¼ sec.9, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100204, on left bank, at private residence on Monette Road, 1.2 mi northeast of Riverview, and 7.5 mi above mouth.

GAGE HEIGHT RECORDS

PERIOD OF RECORD.--October 1983 to September 1984 (maximum and minimum gage heights only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Gage records tidal fluctuations in Alafia River; gage heights affected by flow from Alafia River. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide event occurred; on those days the daily extremes are used.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.97 ft Mar. 28; minimum, 3.91 ft June 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.74	5.45	7.70	4.84	7.35	5.22	7.55	4.18	6.32	4.18
2	---	---	7.63	5.63	7.58	4.90	6.54	4.96	7.17	4.11	7.08	4.61
3	---	---	7.89	5.21	8.75	5.04	7.74	4.93	7.85	4.94	7.51	4.80
4	---	---	8.22	5.32	8.49	5.32	7.95	4.99	8.25	5.62	7.06	4.73
5	---	---	8.61	5.40	7.21	4.91	8.12	5.08	7.71	4.89	7.97	5.45
6	---	---	8.40	5.07	8.66	5.41	8.12	5.24	7.80	4.61	8.26	6.00
7	---	---	8.31	5.30	8.30	4.41	8.09	5.44	6.62	4.45	7.71	5.64
8	---	---	9.19	5.80	7.66	4.65	7.51	4.93	6.75	4.39	6.58	4.48
9	---	---	8.67	5.55	7.16	4.52	7.41	5.03	7.26	4.71	6.85	4.63
10	---	---	8.59	5.97	7.41	5.00	8.61	6.28	7.62	5.05	7.42	4.45
11	---	---	8.79	5.83	7.75	5.60	7.18	6.14	7.45	4.74	7.19	4.43
12	---	---	7.47	5.29	8.50	6.20	7.16	5.34	7.89	4.73	7.27	4.30
13	---	---	7.36	5.66	7.41	5.75	7.21	5.10	8.23	4.77	7.82	4.42
14	---	---	7.81	5.66	8.27	6.09	6.96	4.69	7.30	4.80	7.03	4.58
15	---	---	7.96	6.42	7.17	5.42	7.67	4.44	7.87	4.48	7.70	4.34
16	---	---	8.08	5.83	5.92	4.52	8.35	4.52	7.94	4.50	7.93	4.79
17	---	---	6.98	5.06	7.26	4.96	7.43	4.70	8.31	4.58	8.28	5.01
18	---	---	7.61	5.15	7.09	4.72	8.80	4.82	7.86	4.67	8.23	5.18
19	---	---	8.00	5.15	8.07	4.56	8.96	4.93	7.80	5.00	8.43	5.41
20	---	---	9.23	5.91	7.98	5.01	7.06	4.16	7.77	5.26	9.35	6.38
21	---	---	7.37	4.98	7.89	4.85	7.52	4.16	7.99	5.79	7.90	5.93
22	---	---	8.59	4.80	8.37	4.88	6.19	3.93	8.45	5.46	7.73	4.87
23	---	---	8.55	5.06	8.21	4.83	7.66	4.73	7.45	5.76	7.35	4.80
24	---	---	8.97	5.70	8.06	5.09	8.14	5.97	7.58	5.21	7.85	4.49
25	---	---	9.09	4.66	5.73	4.04	8.08	6.00	6.89	5.13	8.10	5.02
26	---	---	7.44	5.21	6.56	4.49	8.04	5.35	7.27	4.67	7.39	5.26
27	7.68	4.47	3.07	5.73	7.47	5.31	7.82	5.55	8.96	5.35	8.38	5.10
28	7.31	4.75	8.40	6.04	8.06	5.72	7.55	4.85	7.80	6.54	9.97	6.69
29	7.71	4.77	7.32	5.38	8.11	5.56	7.42	4.77	6.72	4.66	8.05	7.40
30	7.79	4.91	7.16	5.47	6.52	5.27	7.96	4.74	---	---	6.96	4.70
31	7.92	5.22	---	---	6.42	5.21	6.32	4.24	---	---	6.96	4.76
MEAN	7.68	4.82	8.12	5.46	7.60	5.07	7.64	5.01	7.66	4.93	7.70	5.06

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301706 ALAFIA RIVER NEAR RIVERVIEW, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.22	4.84	8.14	4.88	7.58	3.91	8.67	4.74	8.85	5.69	8.20	5.42
2	7.49	4.90	8.84	5.24	8.47	4.24	8.74	4.67	8.11	6.18	8.08	5.44
3	[illegible]	5.56	9.50	5.91	8.27	4.57	8.26	4.76	7.70	5.99	8.17	5.49
4	9.48	6.46	9.15	5.40	8.07	4.58	8.07	5.03	8.01	5.87	8.22	5.83
5	7.94	6.44	8.80	5.31	8.03	4.79	7.73	5.50	8.14	5.63	8.29	5.48
6	7.62	5.25	8.37	4.90	7.51	5.06	7.73	5.68	8.02	5.28	8.11	5.04
7	7.77	4.90	8.21	4.89	7.92	5.48	7.94	5.43	8.00	5.02	7.99	5.03
8	8.18	4.74	8.10	4.88	7.96	5.66	7.88	5.04	8.12	5.27	7.61	5.19
9	8.84	4.99	7.31	5.48	8.10	5.52	8.14	5.03	8.10	5.43	8.44	5.85
10	7.83	5.20	7.02	4.62	8.39	6.31	8.51	4.89	8.25	5.29	8.33	5.62
11	7.64	4.80	7.29	4.80	8.57	5.20	8.37	4.96	8.30	5.38	8.41	5.92
12	7.52	4.64	7.88	5.09	8.42	5.03	8.71	5.26	8.39	5.38	8.26	5.82
13	8.26	5.25	7.74	4.64	8.73	4.76	8.78	5.29	8.52	5.62	8.07	5.78
14	8.28	5.56	7.96	4.52	8.86	4.74	8.52	6.79	8.12	5.54	7.93	5.59
15	8.52	5.52	8.15	4.36	8.80	4.84	8.53	5.23	7.85	5.98	8.32	5.76
16	8.60	4.88	7.82	3.96	8.59	5.18	8.53	5.41	7.72	5.52	8.23	5.59
17	8.41	4.94	7.57	4.24	7.14	5.07	8.44	5.53	7.62	5.83	7.88	5.10
18	7.93	6.04	7.86	4.12	8.29	5.18	8.30	6.06	7.96	6.10	8.04	5.45
19	8.17	4.80	7.97	4.34	7.76	5.42	7.68	5.84	8.26	6.43	7.77	5.12
20	8.35	4.88	8.36	4.81	7.41	5.55	7.73	5.91	8.63	6.19	7.64	5.23
21	7.97	4.96	8.11	5.23	7.40	5.53	7.71	5.83	8.49	5.28	7.70	4.87
22	7.98	5.04	7.60	5.26	8.06	5.75	7.80	5.80	7.40	4.99	8.26	5.13
23	8.32	5.40	7.39	5.08	8.24	5.98	8.38	5.47	8.19	5.03	8.31	5.23
24	7.05	5.65	7.49	5.34	8.03	5.49	8.15	5.22	8.65	5.06	8.28	5.40
25	7.02	4.95	7.63	5.59	8.28	5.47	8.34	5.30	8.60	5.02	7.94	5.51
26	7.42	5.15	7.60	5.38	8.38	4.98	8.58	5.00	8.43	4.80	7.72	5.16
27	7.90	5.55	7.81	4.95	8.27	4.88	8.64	5.02	8.45	5.20	7.26	4.60
28	8.05	5.51	8.00	5.02	8.61	4.79	8.98	5.16	8.41	5.36	9.85	5.92
29	7.66	5.19	8.06	6.19	8.71	4.83	8.92	6.67	8.21	5.71	8.11	5.41
30	8.20	5.17	8.03	4.87	9.13	7.11	9.35	5.09	8.00	5.54	8.06	5.10
31	---	---	7.43	4.42	---	---	8.86	5.54	8.20	5.57	---	---
MEAN	8.01	5.24	7.97	4.96	8.20	5.20	8.35	5.39	8.18	5.52	8.12	5.40
YEAR	7.96	5.20										

ALAFIA RIVER BASIN

02301706 ALAFIA RIVER NEAR RIVERVIEW, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1984.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1983 to September 1984.
WATER TEMPERATURE: October 1983 to September 1984.

INSTRUMENTATION.--Water-quality monitor since October 1983.

REMARKS.--Minimum and mean values for temperature and specific conductance are available in files of the Geological Survey. Interruptions in record were due to malfunction of the recording instruments. Extremes may have been exceeded during periods of missing record.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 9,950 microsiemens, Nov. 9; minimum, 210 microsiemens, Dec. 31.
WATER TEMPERATURE: Maximum, 28.5°C, May 7, June 21, 22; minimum, 11.5°C, Jan. 2.

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 2, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1210.0	460.0	250.0	440.0	320.0	420.0	450.0	490.0	500.0	270.0	430.0
2	---	1480.0	480.0	290.0	440.0	340.0	410.0	450.0	910.0	500.0	280.0	790.0
3	---	2030.0	490.0	310.0	430.0	350.0	410.0	450.0	---	500.0	300.0	830.0
4	---	3410.0	640.0	320.0	440.0	360.0	400.0	440.0	---	440.0	350.0	---
5	---	3920.0	420.0	330.0	440.0	360.0	370.0	490.0	---	600.0	330.0	470.0
6	---	1600.0	430.0	350.0	430.0	370.0	360.0	450.0	---	290.0	360.0	380.0
7	---	1110.0	440.0	360.0	450.0	380.0	340.0	510.0	---	370.0	360.0	320.0
8	---	8900.0	440.0	370.0	440.0	390.0	370.0	---	---	410.0	310.0	340.0
9	---	9950.0	440.0	360.0	440.0	390.0	390.0	---	---	440.0	300.0	370.0
10	---	8430.0	430.0	360.0	780.0	400.0	400.0	440.0	---	430.0	360.0	390.0
11	---	2740.0	1260.0	330.0	1570.0	420.0	410.0	410.0	---	390.0	360.0	440.0
12	---	1370.0	3820.0	330.0	2510.0	400.0	410.0	890.0	---	380.0	340.0	450.0
13	---	1360.0	360.0	340.0	2420.0	370.0	410.0	980.0	---	350.0	370.0	450.0
14	---	3250.0	350.0	340.0	1770.0	300.0	420.0	490.0	---	340.0	380.0	450.0
15	--	3160.0	320.0	350.0	320.0	320.0	410.0	470.0	---	580.0	400.0	460.0
16	---	3310.0	330.0	380.0	330.0	360.0	400.0	470.0	---	350.0	380.0	460.0
17	---	2130.0	320.0	380.0	370.0	370.0	390.0	500.0	---	350.0	340.0	460.0
18	---	1530.0	300.0	380.0	380.0	390.0	400.0	---	---	390.0	370.0	---
19	---	3920.0	320.0	370.0	400.0	400.0	400.0	---	---	330.0	380.0	---
20	---	9790.0	300.0	380.0	390.0	400.0	420.0	---	---	390.0	380.0	---
21	---	2630.0	300.0	370.0	380.0	400.0	420.0	---	---	430.0	320.0	---
22	---	430.0	300.0	380.0	340.0	420.0	430.0	---	---	370.0	360.0	---
23	---	520.0	390.0	380.0	290.0	410.0	440.0	---	---	380.0	360.0	---
24	---	2660.0	330.0	420.0	300.0	380.0	430.0	---	---	380.0	400.0	---
25	---	1800.0	450.0	380.0	320.0	380.0	430.0	---	---	360.0	390.0	---
26	410.0	440.0	360.0	390.0	350.0	360.0	430.0	---	700.0	360.0	380.0	---
27	420.0	760.0	370.0	400.0	360.0	380.0	540.0	---	520.0	390.0	380.0	---
28	420.0	3330.0	380.0	410.0	350.0	380.0	710.0	---	500.0	390.0	400.0	920.0
29	420.0	1310.0	380.0	420.0	310.0	380.0	520.0	540.0	570.0	400.0	400.0	300.0
30	890.0	1040.0	320.0	420.0	---	410.0	450.0	---	570.0	310.0	420.0	400.0
31	960.0	---	210.0	430.0	---	400.0	---	590.0	---	310.0	420.0	---
MAX	---	9950.0	3820.0	430.0	2510.0	420.0	710.0	---	---	600.0	420.0	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	22.5	20.0	12.0	17.5	16.0	21.0	25.5	25.5	28.0	26.5	27.5
2	---	23.0	20.5	11.5	18.0	16.5	21.5	26.0	24.5	28.0	27.0	27.0
3	---	23.0	21.0	12.5	17.5	16.5	21.0	25.5	25.0	27.5	27.5	27.0
4	---	23.0	22.5	13.0	18.5	18.0	21.5	26.0	25.5	26.5	28.0	---
5	---	23.0	24.0	13.0	19.0	20.5	21.5	26.5	26.0	25.5	27.5	27.0
6	---	23.0	24.0	13.5	18.0	21.0	21.0	27.5	27.0	25.0	27.5	26.0
7	---	22.0	23.0	14.0	17.0	21.5	21.5	28.5	27.0	26.0	27.0	25.5
8	---	23.0	21.0	15.0	17.0	21.0	21.5	27.5	27.0	26.5	27.0	25.5
9	---	22.0	19.0	14.0	17.0	20.0	21.0	26.5	27.5	27.0	27.5	26.0
10	---	22.5	20.0	15.5	18.0	21.0	22.5	25.5	27.5	27.0	27.5	27.0
11	---	22.5	20.0	16.0	18.5	20.0	22.5	25.0	27.5	26.5	27.0	26.5
12	---	21.5	20.0	15.5	19.0	20.0	22.5	25.0	28.0	27.0	27.0	27.0
13	---	21.0	19.5	15.0	19.5	20.0	23.5	25.5	28.0	27.0	27.5	27.0
14	---	21.0	18.5	14.5	19.5	21.0	24.0	25.5	28.0	27.0	28.0	28.0
15	---	20.5	18.5	15.0	19.5	21.5	23.0	26.0	27.5	27.0	28.0	28.0
16	---	20.5	18.0	16.0	19.0	21.5	22.5	26.0	27.5	27.0	27.5	27.5
17	---	20.0	18.0	17.5	21.0	21.5	21.5	25.5	28.0	26.5	27.5	27.5
18	---	19.5	19.0	18.5	20.5	21.5	22.5	25.5	27.0	26.5	28.0	27.0
19	---	18.5	19.5	19.5	21.0	22.0	23.0	25.5	26.5	26.0	27.5	26.5
20	---	19.0	19.5	19.0	22.0	21.5	23.5	26.0	27.5	26.5	26.5	26.0
21	---	20.5	19.0	17.0	21.5	22.0	23.5	26.0	28.5	26.5	26.5	26.5
22	---	21.0	19.5	15.0	21.0	22.0	24.5	27.0	28.5	26.5	26.0	26.5
23	---	21.0	20.5	16.0	20.5	20.5	24.0	27.0	27.5	26.5	26.0	26.5
24	---	22.0	20.5	17.5	20.0	20.0	24.5	27.0	27.5	26.5	26.5	26.5
25	---	21.5	18.5	19.0	18.5	21.0	24.5	26.5	27.5	26.0	27.0	26.5
26	24.0	20.5	14.5	20.5	19.0	21.5	24.0	26.5	27.5	26.0	26.5	26.5
27	23.0	20.5	12.0	21.0	20.0	22.5	24.5	26.0	27.5	26.5	26.5	26.0
28	22.0	21.0	13.5	21.0	19.5	23.5	25.0	26.0	27.5	27.0	26.5	25.0
29	22.0	21.0	16.0	20.0	18.0	22.5	25.5	26.0	27.5	27.0	27.0	25.5
30	22.0	20.5	17.0	19.0	---	22.5	25.0	26.0	28.0	26.0	27.5	25.0
31	22.0	---	14.5	18.0	---	21.5	---	25.5	---	26.5	27.0	---
MAX	---	23.0	24.0	21.0	22.0	23.5	25.5	28.5	28.5	28.0	28.0	---

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02301764 TAMPA BYPASS CANAL ABOVE S-159 NEAR TAMPA, FL

LOCATION.--Lat 28°02'32", long 82°20'42" in SW¼ sec.18, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on left bank above control structure S-159 on Tampa Bypass Canal, 850 ft south of U. S. Highway 301, 0.4 mi north of Harney Road, 4.1 mi east of Tampa, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1982 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Water-stage recorder for 02301765, Tampa Bypass Canal S-159 middle pool serves as downstream auxiliary gage.

REMARKS.--Flow regulated at station by manipulation of vertical lift gates and slide gates.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 29.91 ft Sept 9, 1983; minimum, 20.40 ft June 17, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 27.82 ft Jan. 2; minimum, 20.40 ft June 17.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.02	24.16	22.82	27.25	24.74	25.83	23.20	23.34	21.11	21.11	25.05	25.04
2	26.90	24.08	22.78	27.79	24.67	26.14	23.12	23.22	21.06	21.18	25.30	24.94
3	26.78	24.00	22.73	27.58	24.60	26.09	23.04	23.10	21.02	21.37	26.06	24.83
4	26.67	23.93	22.69	27.18	24.55	25.86	23.17	22.99	20.98	21.37	27.07	24.74
5	26.56	23.86	22.66	26.78	24.50	25.58	23.32	22.91	20.94	21.39	27.14	24.69
6	26.45	23.80	22.65	26.36	24.43	25.33	23.31	22.82	20.90	21.49	26.80	24.66
7	26.33	23.75	22.66	25.97	24.36	25.14	24.15	22.73	20.86	21.66	26.36	24.60
8	26.21	23.72	22.61	25.64	24.28	24.97	25.88	22.63	20.81	21.89	26.01	24.53
9	26.09	23.69	22.57	25.36	24.20	24.82	26.22	22.56	20.77	22.07	25.87	24.46
10	25.95	23.64	22.53	25.22	24.13	24.70	26.00	22.45	20.72	22.17	25.90	24.40
11	25.86	23.59	22.51	25.16	24.06	24.60	25.67	22.36	20.67	22.22	25.96	24.35
12	25.79	23.53	22.70	25.03	23.99	24.52	25.39	22.27	20.62	22.29	25.92	24.30
13	25.68	23.47	22.73	25.13	23.94	24.50	25.16	22.18	20.57	22.49	25.76	24.23
14	25.55	23.42	22.77	25.46	23.91	24.45	25.02	22.11	20.54	22.82	25.60	24.17
15	25.44	23.35	22.97	25.58	23.85	24.37	24.99	22.03	20.49	23.04	25.47	24.10
16	25.34	23.31	23.13	25.56	23.80	24.29	24.90	21.95	20.45	23.13	25.36	24.02
17	25.24	23.25	23.41	25.49	23.77	24.21	24.79	21.86	20.67	23.18	25.42	23.94
18	25.17	23.19	24.16	25.39	24.54	24.14	24.69	21.77	21.11	23.19	25.44	23.87
19	25.13	23.13	24.88	25.38	24.94	24.07	24.60	21.68	21.07	23.19	25.23	23.84
20	25.09	23.14	25.21	25.32	24.94	24.03	24.52	21.60	21.03	23.21	25.10	23.78
21	25.05	23.19	25.28	25.29	24.84	23.95	24.43	21.53	20.99	23.22	25.17	23.71
22	24.98	23.16	25.30	25.34	24.94	23.86	24.33	21.48	20.96	23.26	25.28	23.64
23	24.91	23.12	25.37	25.40	25.04	23.79	24.23	21.47	20.94	23.28	25.20	23.57
24	24.90	23.08	25.37	25.40	25.54	23.73	24.15	21.46	20.94	23.36	25.32	23.50
25	24.88	23.06	25.26	25.36	25.74	23.64	24.03	21.51	20.93	23.60	25.53	23.43
26	24.78	23.01	25.12	25.27	25.84	23.58	23.91	21.47	20.96	23.74	25.52	23.36
27	24.62	22.98	24.98	25.17	25.91	23.57	23.79	21.40	20.98	23.95	25.39	23.33
28	24.49	22.95	24.85	25.08	25.85	23.49	23.67	21.34	20.95	24.09	25.27	23.62
29	24.39	22.92	24.96	24.98	25.68	23.44	23.56	21.28	20.97	24.22	25.23	23.64
30	24.31	22.87	25.19	24.89	---	23.35	23.45	21.23	21.02	24.47	25.21	23.61
31	24.23	---	25.41	24.81	---	23.27	---	21.18	---	24.69	25.14	---
MEAN	25.51	23.41	23.81	25.67	24.68	24.43	24.36	22.06	20.87	22.79	25.65	24.10
MAX	27.02	24.16	25.41	27.79	25.91	26.14	26.22	23.34	21.11	24.69	27.14	25.04
MIN	24.23	22.87	22.51	24.81	23.77	23.27	23.04	21.18	20.45	21.11	25.05	23.33

CAL YR 1983 MEAN 24.83 MAX 29.95 MIN 21.40
WTR YR 1984 MEAN 23.95 MAX 27.79 MIN 20.45

TAMPA BAY AND COASTAL AREAS

02301778 TAMPA BYPASS CANAL AT S-162 NEAR TAMPA, FL

LOCATION.--Lat 27°59'00", long 82°21'07", in SW¼ sec.6, T.29 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on right bank at control structure S-162 on Tampa Bypass Canal, 0.1 mi north of Buffalo Avenue, 0.5 mi east of U. S. Highway 301, 5.5 mi upstream from mouth, and 6.9 mi northeast of downtown post office in Tampa.

DRAINAGE AREA.--Indeterminate, since January 1970; see REMARKS.

PERIOD OF RECORD.--March 1977 to current year (gage heights only). Prior to Oct. 1, 1982, published as Tampa Bypass Canal at S-162 near Tampa-275857082211200.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Auxiliary gage at downstream side of structure.

REMARKS.--Flow regulated at station by manipulation of vertical lift gates and slide gates.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.30 ft Aug. 31, 1979; minimum, 9.54 ft Oct. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.87 ft June 17; minimum, 13.62 ft Sept. 11.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.10	14.12	14.14	14.30	14.09	14.30	14.32	14.32	14.27	14.44	14.60	14.19
2	14.09	14.11	14.14	14.30	14.09	14.24	14.32	14.32	14.29	14.52	14.53	14.14
3	14.09	14.11	14.14	14.34	14.09	14.12	14.32	14.32	14.30	14.44	14.45	14.10
4	14.05	14.15	14.14	14.30	14.10	14.11	14.43	14.31	14.30	14.38	14.42	14.07
5	14.06	14.16	14.13	14.28	14.10	14.10	14.38	14.31	14.33	14.36	14.41	14.25
6	14.14	14.16	14.10	14.28	14.10	14.10	14.33	14.31	14.33	14.36	14.40	14.22
7	14.14	14.18	14.09	14.34	14.10	14.08	14.33	14.31	14.33	14.36	14.41	14.16
8	14.14	14.19	14.08	14.33	14.10	14.08	14.33	14.30	14.32	14.36	14.42	14.06
9	14.14	14.19	14.11	14.33	14.10	14.09	14.34	14.31	14.31	14.35	14.41	13.94
10	14.15	14.17	14.12	14.39	14.10	14.09	14.33	14.30	14.31	14.31	14.41	13.82
11	14.17	14.13	14.13	14.37	14.09	14.08	14.32	14.30	14.31	14.35	14.39	13.71
12	14.17	14.11	14.25	14.30	14.09	14.03	14.32	14.30	14.27	14.42	14.38	14.11
13	14.17	14.10	14.12	14.29	14.10	14.05	14.32	14.30	14.25	14.36	14.37	14.36
14	14.17	14.10	14.16	14.17	14.07	14.07	14.35	14.29	14.26	14.38	14.32	14.40
15	14.16	14.07	14.30	14.15	14.05	14.05	14.39	14.27	14.31	14.37	14.32	14.41
16	14.15	14.08	14.17	14.14	14.06	14.05	14.35	14.30	14.31	14.36	14.38	14.41
17	14.15	14.13	14.12	14.14	14.10	14.05	14.34	14.30	14.48	14.34	14.50	14.40
18	14.14	14.14	14.10	14.13	14.10	14.05	14.33	14.31	14.51	14.33	14.47	14.40
19	14.14	14.16	14.05	14.19	14.10	14.10	14.33	14.31	14.35	14.36	14.43	14.40
20	14.14	14.20	14.10	14.15	14.11	14.10	14.33	14.31	14.30	14.41	14.44	14.39
21	14.12	14.19	14.10	14.12	14.09	14.00	14.34	14.31	14.27	14.40	14.53	14.38
22	14.09	14.13	14.15	14.10	14.20	13.98	14.34	14.30	14.27	14.47	14.53	14.35
23	14.09	14.12	14.10	14.08	14.14	14.35	14.34	14.33	14.32	14.41	14.47	14.34
24	14.14	14.15	14.10	14.03	14.10	14.30	14.32	14.37	14.34	14.50	14.43	14.33
25	14.10	14.14	14.10	14.01	14.12	14.30	14.31	14.37	14.32	14.56	14.38	14.29
26	14.14	14.14	14.10	14.01	14.11	14.30	14.31	14.34	14.30	14.46	14.36	14.28
27	14.14	14.15	14.12	14.03	14.16	14.30	14.32	14.33	14.30	14.47	14.35	14.33
28	14.14	14.15	14.20	14.11	14.35	14.26	14.32	14.33	14.29	14.42	14.30	14.64
29	14.16	14.15	14.25	14.12	14.31	14.25	14.32	14.32	14.31	14.40	14.29	14.47
30	14.16	14.15	14.32	14.11	---	14.26	14.33	14.29	14.35	14.43	14.28	14.43
31	14.15	---	14.28	14.09	---	14.31	---	14.28	---	14.43	14.25	---
MEAN	14.13	14.14	14.15	14.19	14.12	14.15	14.34	14.31	14.32	14.40	14.41	14.26
MAX	14.17	14.20	14.32	14.39	14.35	14.35	14.43	14.37	14.51	14.56	14.60	14.64
MIN	14.05	14.07	14.05	14.01	14.05	13.98	14.31	14.27	14.25	14.31	14.25	13.71

CAL YR 1983	MEAN	14.16	MAX	14.85	MIN	12.60
WTR YR 1984	MEAN	14.24	MAX	14.64	MIN	13.71

02301802 TAMPA BYPASS CANAL AT S-160, AT TAMPA, FL

LOCATION.--Lat 27°57'21", long 82°22'15", in SE¼ sec.14, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, at control structure S-160 on Tampa Bypass Canal, at southeastern city limits of Tampa, 0.3 mi north of State Highway 60, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate, since January 1970; see REMARKS.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to September 1974 (gage heights only); October 1974 to current year. Prior to October 1975, published as Sixmile Creek at S-160, at Tampa.

REVISED RECORDS.--WDR-76-3: 1975.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1974, at datum 0.84 ft higher.

REMARKS.--Flow regulated at station by manipulation of vertical lift gates and slide gates. Some regulation by Structure S-162, 2.3 mi upstream. Appreciable amount of water diverted to canal system from Hillsborough River.

COOPERATION.--Records of gate operations furnished by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,880 ft³/s Oct. 2, 1979; maximum gage height, 11.23 ft Feb. 8, 1981; no flow Feb. 11-13, 1975, Apr. 30, 1976; minimum gage height, 3.84 ft, present datum, July 4, Aug. 11, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,370 ft³/s Feb. 17; maximum gage height, 10.67 ft Sept. 7; minimum daily discharge, 19 ft³/s July 19; minimum gage height, 7.20 ft Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	68	58	640	64	575	52	49	44	129	266	98
2	76	62	59	631	64	406	54	49	44	154	212	95
3	78	59	61	633	65	133	52	46	44	113	155	91
4	76	58	61	621	67	127	113	50	46	84	133	95
5	68	65	66	619	64	124	95	49	38	74	125	154
6	65	62	71	604	63	102	68	49	41	73	118	106
7	72	72	74	603	61	68	58	48	41	74	113	103
8	68	76	58	604	61	61	58	46	46	74	112	102
11	76	71	61	615	64	61	55	44	46	106	117	81
12	82	64	143	593	64	66	55	44	46	141	113	22
13	79	64	95	330	76	84	56	44	41	97	115	58
14	81	66	121	91	74	71	58	48	41	84	102	78
15	79	71	222	77	68	64	81	44	39	81	84	74
16	76	64	134	79	61	59	70	41	41	83	71	74
17	75	55	121	77	62	55	61	41	125	77	142	73
18	70	59	102	74	64	58	58	42	119	71	133	71
19	70	58	90	102	64	60	55	41	84	84	106	71
20	68	91	99	93	79	58	56	44	68	114	127	71
21	70	100	91	88	77	68	55	48	61	88	217	72
22	68	77	85	77	141	52	52	55	53	110	189	68
23	68	68	81	83	106	63	57	74	52	90	137	68
24	107	68	74	81	85	61	55	91	61	145	131	73
25	79	68	64	77	74	58	52	89	63	212	113	71
26	68	61	61	77	71	63	52	77	58	137	106	68
27	59	61	66	68	244	68	50	61	52	146	104	64
28	60	66	64	64	577	58	49	55	52	129	102	304
29	65	61	184	68	576	58	49	57	53	121	95	133
30	65	61	223	68	---	50	51	52	61	160	95	98
31	70	---	374	68	---	49	---	49	---	150	100	---
TOTAL	2257	2015	3177	9047	3259	3000	1795	1620	1645	3371	3954	2754
MEAN	72.8	67.2	102	292	112	96.8	59.8	52.3	54.8	109	128	91.8
MAX	107	100	374	640	577	575	113	91	125	212	266	304
MIN	59	55	56	64	61	49	49	41	38	71	71	22
AC-FT	4480	4000	6300	17940	6460	5950	3560	3210	3260	6690	7840	5460

CAL YR 1983 TOTAL 117635 MEAN 322 MAX 2370 MIN 19 AC-FT 233300
WTR YR 1984 TOTAL 37894 MEAN 104 MAX 640 MIN 22 AC-FT 75160

02301802 TAMPA BYPASS CANAL AT S-160, AT TAMPA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.44	9.40	9.32	9.58	9.34	10.10	9.55	9.54	9.52	9.77	10.07	9.69
2	9.43	9.38	9.32	9.59	9.34	9.81	9.55	9.54	9.52	9.85	9.96	9.68
3	9.43	9.37	9.33	9.62	9.34	9.38	9.55	9.53	9.52	9.73	9.83	9.67
4	9.43	9.36	9.33	9.61	9.35	9.36	9.73	9.54	9.52	9.65	9.78	9.68
5	9.40	9.39	9.34	9.59	9.34	9.35	9.68	9.54	9.50	9.62	9.76	9.83
6	9.39	9.38	9.36	9.56	9.33	9.35	9.60	9.54	9.51	9.61	9.74	9.71
7	9.41	9.41	9.37	9.56	9.33	9.35	9.57	9.53	9.51	9.62	9.73	9.70
8	9.40	9.42	9.32	9.52	9.33	9.33	9.57	9.53	9.52	9.62	9.72	9.70
9	9.41	9.35	9.31	9.63	9.33	9.33	9.57	9.54	9.52	9.64	9.72	9.71
10	9.40	9.36	9.32	10.04	9.33	9.32	9.57	9.52	9.51	9.63	9.72	9.72
11	9.43	9.36	9.33	9.90	9.34	9.33	9.56	9.52	9.52	9.71	9.74	9.64
12	9.45	9.34	9.35	9.58	9.34	9.34	9.56	9.52	9.53	9.80	9.73	9.43
13	9.44	9.34	9.43	9.50	9.37	9.40	9.56	9.52	9.51	9.68	9.73	9.57
14	9.44	9.34	9.50	9.42	9.37	9.36	9.57	9.53	9.51	9.65	9.70	9.63
15	9.44	9.36	9.73	9.38	9.35	9.34	9.64	9.52	9.50	9.64	9.65	9.62
16	9.43	9.34	9.53	9.38	9.33	9.32	9.60	9.51	9.51	9.64	9.61	9.62
17	9.42	9.31	9.50	9.38	9.33	9.31	9.58	9.51	9.76	9.63	9.80	9.61
18	9.41	9.32	9.45	9.37	9.34	9.32	9.57	9.51	9.74	9.61	9.78	9.61
19	9.41	9.32	9.41	9.45	9.34	9.32	9.56	9.51	9.65	9.65	9.71	9.61
20	9.40	9.42	9.44	9.42	9.38	9.32	9.56	9.52	9.60	9.73	9.76	9.61
21	9.41	9.44	9.42	9.41	9.38	9.33	9.56	9.53	9.58	9.66	9.97	9.61
22	9.40	9.38	9.40	9.38	9.55	9.30	9.55	9.56	9.55	9.72	9.91	9.60
23	9.40	9.35	9.39	9.39	9.46	9.49	9.56	9.62	9.55	9.66	9.79	9.60
24	9.53	9.35	9.37	9.39	9.40	9.58	9.56	9.67	9.58	9.81	9.77	9.61
25	9.44	9.35	9.34	9.38	9.37	9.57	9.55	9.66	9.58	9.96	9.73	9.61
26	9.39	9.33	9.33	9.38	9.36	9.58	9.55	9.63	9.57	9.79	9.71	9.60
27	9.37	9.33	9.34	9.35	9.52	9.60	9.54	9.58	9.55	9.81	9.70	9.59
28	9.37	9.34	9.34	9.34	10.03	9.57	9.54	9.56	9.55	9.77	9.70	9.99
29	9.39	9.33	9.65	9.35	10.05	9.57	9.54	9.56	9.55	9.75	9.68	9.78
30	9.39	9.33	9.74	9.35	---	9.54	9.54	9.55	9.58	9.84	9.68	9.69
31	9.40	---	9.55	9.35	---	9.54	---	9.54	---	9.82	9.69	---
MEAN	9.42	9.36	9.41	9.49	9.41	9.44	9.57	9.55	9.55	9.71	9.76	9.66
MAX	9.53	9.44	9.74	10.04	10.05	10.10	9.73	9.67	9.76	9.96	10.07	9.99
MIN	9.37	9.31	9.31	9.34	9.33	9.30	9.54	9.51	9.50	9.61	9.61	9.43

CAL YR 1983 MEAN 9.46 MAX 10.59 MIN 8.33
WTR YR 1984 MEAN 9.53 MAX 10.10 MIN 9.30

02301802 TAMPA BYPASS CANAL AT S-160, AT TAMPA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN											
06...	1045	9.69	262	--	7.2	--	14.0	--	--	8.6	--
FEB											
29...	0834	10.06	450	--	8.1	--	17.0	--	--	8.2	--
MAY											
04...	0945	9.54	452	--	7.7	--	25.0	--	--	6.9	--
30...	1600	9.75	425	440	9.2	7.2	28.0	20	1.3	11.5	71
AUG											
14...	1633	9.90	392	--	4.6	--	30.5	--	--	4.7	--
SEP											
11...	1340	9.79	451	467	7.6	7.6	27.5	60	1.0	7.3	79

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
JAN											
06...	--	--	--	--	--	--	--	--	.020	.28	.080
FEB											
29...	--	--	--	--	--	--	--	--	.020	.43	.080
MAY											
04...	--	--	--	--	--	--	--	--	<.010	<.02	.020
30...	7.6	13	2.2	27	75	.30	6.2	302	<.010	<.02	.020
AUG											
14...	--	--	--	--	--	--	--	--	.010	<.02	.040
SEP											
11...	21	120	7.4	34	68	.30	9.9	319	.010	<.02	.150

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
JAN										
06...	.82	.370	.320	--	--	--	--	--	--	--
FEB										
29...	.50	.200	.170	--	--	--	--	--	--	--
MAY										
04...	.52	.180	.160	--	--	--	--	--	--	--
30...	.98	.340	.220	2	<100	<10	<1	30	1	220
AUG										
14...	1.0	.310	.200	--	--	--	--	--	--	--
SEP										
11...	1.0	.320	.270	1	<100	<10	2	<10	1	190

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
MAY										
30...	1	40	<.1	1	<1	<1	1000	20	10	123
SEP										
11...	7	30	.2	1	<1	<1	920	30	8.0	125

HILLSBOROUGH RIVER BASIN

02301870 HILLSBOROUGH RIVER NEAR RICHLAND, FL

LOCATION.--Lat 28°15'32", long 82°06'20", in NW¼ sec.3, T.26 S., R.22 E., Polk County, Hydrologic Unit 03100205, near right bank on downstream side of bridge on State Highway 54, 1.0 mi downstream from U. S. Highway 98, 1.8 mi upstream from Fox Branch, 2.5 mi southeast of Richland, and 54 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1965 to current year (thrice weekly gage heights only).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 80.20 ft Oct. 1, 1979; river dry at gage for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 78.60 ft Aug. 10, 13, 15; minimum observed, 76.00 ft June 4.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	77.85	78.30	---	---	77.05	---	77.50	78.40
2	---	77.40	77.40	77.75	---	78.20	77.40	77.40	---	76.04	---	---
3	77.80	---	---	---	77.75	---	---	---	---	---	77.70	78.35
4	---	77.40	---	77.75	---	---	77.60	77.30	76.00	---	---	---
5	77.70	---	77.40	---	---	78.10	---	---	---	---	---	78.30
6	---	---	---	77.70	77.50	---	78.00	---	76.90	76.60	78.00	---
7	77.55	77.35	---	---	---	77.95	---	77.21	---	---	---	78.25
8	---	---	---	---	77.40	---	---	---	76.80	---	78.25	---
9	---	77.40	77.40	77.70	---	77.80	78.20	77.25	---	77.75	---	---
10	77.40	---	---	---	77.40	---	---	---	---	---	78.60	78.20
11	---	77.40	---	78.10	---	---	78.10	77.15	76.65	77.80	---	---
12	77.30	---	77.40	---	---	77.70	---	---	---	---	---	78.15
13	---	---	---	78.00	77.40	---	78.00	---	76.50	77.80	78.60	---
14	77.25	77.35	77.40	---	---	77.60	---	77.10	---	---	---	78.10
15	---	---	---	---	77.40	---	---	---	76.50	---	78.60	---
16	---	77.30	77.40	78.00	---	77.60	78.30	77.10	---	77.70	---	---
17	77.35	---	77.40	---	77.40	---	---	---	---	---	78.40	---
18	---	77.30	---	76.00	---	---	78.20	76.90	---	77.65	---	---
19	77.45	---	77.50	---	---	77.50	---	---	---	---	---	---
20	---	---	---	78.00	77.40	---	78.00	---	---	77.65	78.30	---
21	77.50	77.40	77.50	---	---	77.45	---	76.80	---	---	---	---
22	---	---	---	---	77.90	---	---	---	---	---	78.50	---
23	---	77.35	77.55	78.00	---	77.40	77.80	77.00	---	77.80	---	---
24	77.60	---	---	---	78.00	---	---	---	---	---	78.50	---
25	---	77.35	---	78.00	---	---	77.65	77.10	---	78.00	---	---
26	77.45	---	77.55	---	---	77.40	---	---	---	---	---	---
27	---	---	---	78.00	78.30	---	77.50	---	---	77.70	78.29	---
28	77.40	77.35	77.60	---	---	77.40	---	77.10	---	---	---	---
29	---	---	---	---	78.30	---	---	---	---	---	78.45	---
30	---	77.35	77.75	77.80	---	77.50	77.40	77.05	---	77.60	---	---
31	77.40	---	---	---	---	---	---	---	---	---	---	---

HILLSBOROUGH RIVER BASIN

02301900 FOX BRANCH NEAR SOCRUM, FL

LOCATION.--Lat 28°10'55", long 82°00'45", in NE¼ sec.33, T.26 S., R.23 E., Polk County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on Rock Ridge Road, 1.1 mi northeast of Socrum, 8.7 mi upstream from mouth, and 10 mi north of Lakeland.

DRAINAGE AREA.--9.5 mi^2, approximately.

PERIOD OF RECORD.--December 1963 to current year.

REVISED RECORDS.--WRD FL 1969: 1968 (M).

GAGE.--Water-stage recorder. Datum of gage is 110.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Some diversion at times by pumpage for irrigation.

AVERAGE DISCHARGE.--20 years (water years 1965-84), 8.17 ft^3/s, 11.68 in/yr, 5,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 685 ft^3/s Sept. 11, 1964; maximum gage height, 8.22 ft July 26, 1978; no flow at times in some years; channel dry at gage for many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 364 ft^3/s Apr. 5, gage height, 6.80 ft; minimum, 1.0 ft^3/s June 23, gage height, 2.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.2	3.0	23	4.1	12	4.4	3.0	5.0	4.5	8.6	2.1
2	4.3	3.2	2.8	14	3.7	8.4	3.9	2.9	4.5	7.0	7.4	1.9
3	4.1	3.0	2.7	10	3.6	7.0	3.6	2.9	4.0	13	5.7	1.8
4	3.9	2.9	2.6	8.1	3.5	6.1	96	2.7	3.5	23	4.0	1.7
5	3.8	2.8	2.6	7.1	3.4	5.4	287	2.6	3.7	24	3.6	1.9
6	3.7	2.8	2.7	6.3	3.2	5.0	121	2.6	3.7	12	32	2.1
7	3.6	2.8	3.6	5.5	3.0	4.9	32	2.7	3.5	7.3	47	2.2
8	3.6	3.1	4.9	5.0	2.8	4.5	18	2.7	4.0	4.8	27	2.2
9	4.7	4.4	4.3	4.5	2.7	4.1	14	4.5	3.5	3.6	24	2.0
10	6.0	4.6	3.7	6.1	2.7	3.8	13	5.0	2.8	3.4	25	1.9
11	7.5	3.9	3.3	39	2.7	3.6	11	4.5	2.4	3.2	14	1.8
12	9.0	3.4	6.4	29	2.7	3.4	9.1	3.8	2.0	2.8	11	1.8
13	12	3.0	18	15	3.5	9.1	7.9	3.3	2.0	2.4	8.9	1.7
14	18	2.8	14	12	14	13	8.2	2.9	2.1	3.7	6.7	1.7
15	24	2.6	24	10	13	8.7	12	2.6	1.8	5.2	5.1	1.5
16	25	2.7	35	8.6	8.5	6.6	11	2.5	2.0	4.2	4.1	1.5
17	27	2.6	21	7.7	6.6	5.5	9.3	2.3	2.3	3.2	3.1	1.5
18	42	2.5	15	7.2	5.5	4.8	8.1	2.1	3.2	3.2	2.6	1.5
19	39	2.4	12	13	4.9	4.3	7.2	2.1	2.2	4.5	2.3	1.9
20	23	2.8	14	25	4.5	4.0	6.5	2.0	1.5	4.9	2.7	1.8
21	16	9.2	16	19	5.2	4.2	5.9	2.0	1.2	5.3	3.8	1.7
22	12	11	13	14	27	4.0	5.6	2.1	1.1	4.9	7.0	1.6
23	8.8	7.9	11	10	28	3.9	5.1	4.6	1.1	4.8	6.7	1.5
24	7.2	5.5	9.0	8.5	15	4.1	4.9	15	1.2	4.1	4.7	1.5
25	6.2	4.8	7.3	7.4	9.8	4.1	4.5	14	1.4	3.1	4.8	1.5
26	5.2	4.5	5.7	6.8	7.5	4.1	4.1	9.1	2.0	3.2	11	1.5
27	4.5	3.9	4.9	6.2	6.9	8.0	3.9	6.7	2.0	7.1	9.7	1.6
28	4.1	3.4	4.6	6.6	21	10	3.5	5.5	1.8	8.0	5.9	2.9
29	3.8	3.2	16	6.6	21	7.5	3.3	5.3	3.0	5.2	3.9	4.9
30	3.5	3.1	95	5.5	---	5.9	3.2	6.0	4.6	3.6	2.8	4.1
31	3.3	---	72	4.7	---	5.0	---	5.8	---	5.3	2.4	---
TOTAL	343.2	118.0	450.1	351.4	240.0	185.0	727.2	135.8	79.1	194.5	307.5	59.3
MEAN	11.1	3.93	14.5	11.3	8.28	5.97	24.2	4.38	2.64	6.27	9.92	1.98
MAX	42	11	95	39	28	13	287	15	5.0	24	47	4.9
MIN	3.3	2.4	2.6	4.5	2.7	3.4	3.2	2.0	1.1	2.4	2.3	1.5
CFSM	1.17	.41	1.53	1.19	.87	.63	2.55	.46	.28	.66	1.04	.21
IN.	1.34	.46	1.76	1.38	.94	.72	2.85	.53	.31	.76	1.20	.23
AC-FT	681	234	893	697	476	367	1440	269	157	386	610	118

CAL YR 1983	TOTAL	6486.33	MEAN	17.8	MAX	320	MIN	.14	CFSM	1.87	IN.	25.40	AC-FT	12870
WTR YR 1984	TOTAL	3191.1	MEAN	8.72	MAX	287	MIN	1.1	CFSM	.92	IN.	12.50	AC-FT	6330

HILLSBOROUGH RIVER BASIN

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°11'07", long 82°11'03", in NW¼ sec.35, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, at right bank at upstream side of bridge on former State Highway 23, 0.2 mi upstream from Crystal Springs, 1.5 mi west of village of Crystal Springs, and 3.0 mi south of Zephyrhills.

DRAINAGE AREA.--82 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1941 to August 1964 (fragmentary); September 1964 to September 1983 (gage heights only), incomplete; October 1983 to September 1984, incomplete. Records of elevations prior to October 1963 are availabale in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 12, 1941, nonrecording gage (reference point) at same site at elevation 63.30 ft; Sept. 12, 1941, to May 14, 1964, nonrecording gage at same site at datum 50.97 ft higher.

REMARKS.--Discharge measurements made at this site are used in conjunction with those made below Crystal Springs (Station No. 02302000) to determine spring flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, unknown; minimum observed, 50.40 ft Apr. 23, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 315 ft^3/ft Aug. 6, gage height, 54.05 ft; minimum, 8.6 ft^3/s June 12, gage height, 51.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	27	26	173	52	202	32	24	18	24	142	80
2	35	25	21	173	46	187	26	19	17	34	148	75
3	29	23	20	177	44	176	28	20	19	74	128	71
4	29	22	21	166	41	163	163	20	15	36	110	63
5	29	22	22	149	41	141	174	17	13	59	119	92
6	25	21	25	133	34	126	117	19	14	106	277	156
7	26	24	38	122	33	106	125	21	12	49	198	102
8	24	27	26	108	32	91	163	18	12	35	162	83
9	24	31	24	103	31	75	181	22	13	94	152	62
10	20	28	20	114	28	65	188	23	11	238	146	56
11	29	24	24	145	27	56	164	22	9.6	137	143	50
12	31	26	64	123	27	49	139	18	11	76	156	47
13	27	24	40	119	38	58	133	16	12	60	165	45
14	28	20	36	119	61	52	121	19	11	101	167	50
15	48	23	72	118	44	44	136	16	13	64	162	45
16	42	25	51	107	38	39	137	16	12	55	150	40
17	33	23	43	98	36	37	136	16	11	46	137	46
18	38	19	38	87	33	32	129	14	15	37	117	39
19	33	21	39	104	30	30	110	16	13	38	102	40
20	27	30	58	107	37	32	91	14	12	35	94	44
21	28	43	47	114	40	29	75	15	11	30	109	41
22	29	33	44	109	150	27	57	15	11	31	123	30
23	32	26	41	114	139	29	48	19	12	31	90	28
24	32	29	38	107	149	30	47	24	12	26	73	28
25	38	29	38	99	147	31	36	25	15	32	75	26
26	37	22	34	93	136	32	35	20	12	38	92	28
27	36	25	29	86	145	52	30	21	12	47	114	26
28	33	22	35	79	222	41	25	26	11	60	109	55
29	31	20	97	69	209	37	23	21	13	73	92	38
30	29	25	203	64	---	32	25	23	17	89	88	34
31	24	---	170	57	---	29	---	21	---	113	87	---
TOTAL	969	759	1484	3536	2090	2130	2894	600	389.6	1968	4027	1620
MEAN	31.3	25.3	47.9	114	72.1	68.7	96.5	19.4	13.0	63.5	130	54.0
MAX	48	43	203	177	222	202	188	26	19	238	277	156
MIN	20	19	20	57	27	27	23	14	9.6	24	73	26
AC-FT	1920	1510	2940	7010	4150	4220	5740	1190	773	3900	7990	3210

WTR YR 1984 TOTAL 22466.6 MEAN 61.4 MAX 277 MIN 9.6 AC-FT 44560

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.59	52.29	52.26	53.53	52.73	53.65	52.33	52.19	51.96	52.12	53.38	52.98
2	52.46	52.24	52.12	53.53	52.64	53.59	52.20	52.08	51.91	52.34	53.41	52.94
3	52.34	52.19	52.11	53.55	52.61	53.54	52.22	52.08	52.00	52.91	53.31	52.90
4	52.34	52.15	52.13	53.50	52.56	53.48	53.25	52.07	51.86	52.41	53.20	52.83
5	52.32	52.16	52.14	53.41	52.56	53.38	53.52	51.97	51.76	52.56	53.23	53.03
6	52.23	52.13	52.21	53.33	52.43	53.29	53.24	52.05	51.81	53.16	53.93	53.45
7	52.25	52.22	52.50	53.27	52.41	53.17	53.29	52.09	51.73	52.62	53.64	53.15
8	52.21	52.27	52.27	53.19	52.39	53.07	53.48	52.00	51.73	52.38	53.48	53.01
9	52.19	52.37	52.20	53.15	52.37	52.95	53.57	52.14	51.78	53.07	53.43	52.81
10	52.11	52.30	52.11	53.21	52.32	52.86	53.60	52.16	51.69	53.79	53.40	52.73
11	52.32	52.20	52.21	53.40	52.29	52.77	53.49	52.12	51.64	53.34	53.39	52.65
12	52.37	52.26	52.84	53.28	52.29	52.68	53.36	51.98	51.70	52.94	53.45	52.61
13	52.29	52.21	52.55	53.25	52.48	52.80	53.33	51.94	51.75	52.76	53.50	52.58
14	52.30	52.09	52.47	53.25	52.83	52.72	53.26	52.03	51.69	53.13	53.51	52.65
15	52.67	52.18	52.92	53.25	52.61	52.60	53.35	51.94	51.77	52.84	53.48	52.58
16	52.57	52.23	52.70	53.18	52.50	52.52	53.36	51.93	51.73	52.72	53.42	52.50
17	52.42	52.17	52.60	53.12	52.48	52.48	53.35	51.92	51.69	52.60	53.35	52.59
18	52.51	52.06	52.51	53.04	52.42	52.39	53.31	51.85	51.86	52.42	53.24	52.48
19	52.41	52.13	52.52	53.16	52.36	52.33	53.20	51.92	51.77	52.44	53.15	52.48
20	52.28	52.31	52.80	53.18	52.48	52.38	53.07	51.86	51.73	52.39	53.09	52.56
21	52.30	52.59	52.65	53.22	52.49	52.30	52.95	51.86	51.70	52.27	53.19	52.51
22	52.34	52.40	52.61	53.19	53.42	52.25	52.78	51.87	51.71	52.31	53.27	52.28
23	52.39	52.27	52.56	53.22	53.37	52.30	52.67	52.00	51.75	52.29	53.06	52.22
24	52.39	52.33	52.51	53.18	53.42	52.32	52.66	52.13	51.73	52.18	52.92	52.24
25	52.51	52.34	52.50	53.13	53.40	52.34	52.47	52.16	51.83	52.31	52.94	52.17
26	52.49	52.16	52.44	53.08	53.35	52.34	52.45	52.02	51.72	52.44	53.07	52.24
27	52.47	52.24	52.34	53.04	53.39	52.69	52.34	52.06	51.74	52.61	53.22	52.18
28	52.42	52.17	52.45	52.98	53.74	52.53	52.23	52.19	51.70	52.79	53.19	52.73
29	52.38	52.09	52.94	52.90	53.69	52.46	52.17	52.04	51.78	52.92	53.08	52.45
30	52.33	52.23	53.66	52.86	---	52.34	52.24	52.11	51.90	53.05	53.05	52.37
31	52.21	---	53.52	52.79	---	52.27	---	52.03	---	53.22	53.04	---
MEAN	52.37	52.23	52.53	53.21	52.76	52.74	52.96	52.03	51.77	52.69	53.29	52.63
MAX	52.67	52.59	53.66	53.55	53.74	53.65	53.60	52.19	52.00	53.79	53.93	53.45
MIN	52.11	52.06	52.11	52.79	52.29	52.25	52.17	51.85	51.64	52.12	52.92	52.17

WTR YR 1984 MEAN 52.60 MAX 53.93 MIN 51.64

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
19...	0930	52.45	--	350	7.5	23.0	4.1	10
NOV								
04...	0900	52.17	23	331	7.7	21.0	5.3	--
JAN								
18...	1035	53.04	87	255	6.7	17.5	5.3	--
FEB								
28...	1325	53.75	226	205	7.3	17.0	5.6	--
MAY								
01...	1300	52.18	23	295	7.4	23.0	5.2	--
22...	0950	51.83	14	350	7.6	23.0	3.6	7.7
JUN								
28...	1030	51.67	10	340	7.7	25.0	4.6	--
AUG								
28...	1045	53.20	110	173	6.6	23.5	5.0	--

HILLSBOROUGH RIVER BASIN

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°10'30", long 82°11'20", in SE¼ sec.34, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, at left bank of Hillsborough River, 0.2 mi downstream from Crystal Springs, 2.0 mi west of village of Crystal Springs, and 4.0 mi south of Zephyrhills.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year (discharge measurements only). Miscellaneous discharge measurements for some periods prior to October 1934.
TEMPERATURE OBSERVATIONS: October 1977 to current year. See REMARKS.

REVISED RECORDS.--WSP 1052: 1935, 1937-42, 1944, 1945.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to May 15, 1964, at present site at datum 34.67 ft higher. Prior to Sept. 30, 1983, auxiliary nonrecording gage on Hillsborough River 0.2 mi upstream from Crystal Springs; Oct. 1, 1983, to Sept. 30, 1984, recording gage at same site upstream. See WRD FL 1968 for history of changes and extremes prior to Jan. 19, 1953.

REMARKS.--Spring discharge is the difference between discharge measurements of Hillsborough River made below and above Crystal Springs. Since 1945, flow regulated occasionally at springs outlet for recreational purposes. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

AVERAGE DISCHARGE.--358 measurements (1923, 1933, 1934-84), 58.6 ft³/s, 37.8 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 147 ft³/s July 19, 1941; minimum measured, 20 ft³/s July 1, 1946.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Time	Hillsborough River Below springs (cfs)	Hillsborough River Above springs (cfs)	Difference or spring flow (cfs)
Nov. 4	1020	79	23	56
Apr. 3	1010	82	29	53
May 1	1450	84	23	61
Aug. 29	1103	145	87	58

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT												
19...	0945	310	7.6	24.0	2.6	--	--	--	--	--	--	.30
NOV												
04...	1230	300	7.7	24.0	3.5	<.010	2.2	.010	.13	.040	.040	--
JAN												
18...	1140	305	6.6	24.0	--	<.010	1.7	.010	<.05	.040	.030	--
FEB												
28...	1210	310	7.6	23.5	2.6	<.010	2.0	.010	.08	.040	.030	--
MAY												
01...	1430	310	6.4	23.5	2.6	<.010	1.6	.020	.16	.040	.030	--
22...	0925	307	7.3	23.5	2.6	--	--	--	--	--	--	3.6
JUN												
28...	0900	260	7.5	24.0	2.8	.010	2.0	.060	.27	.110	.060	--
AUG												
28...	1020	300	7.3	24.0	3.0	<.010	1.9	.020	.16	.060	.040	--

[illegible] AVAILABLE

02302010 HILLSBOROUGH RIVER BELOW CRYSTAL SPRINGS, FL

LOCATION.--Lat 28°10'30", long 82°11'20", in SE¼ sec.34, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, at left bank, 0.2 mi downstream from Crystal Springs, 2.0 mi west of village of Crystal Springs, and 4.0 mi south of Zephyrhills.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1934 to October 1983 (discharge measurements only); October 1983 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 52.37 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Discharge at this site is used in conjunction with discharge at Hillsborough River Above Crystal Springs (02301990) to determine spring flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 692 ft^3/s July 19, 1941; maximum gage height unknown; minimum discharge measured, 44 ft^3/s July 5, 1977; minimum gage height observed, 48.36 ft July 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 391 ft^3/s Aug. 6, gage height, 52.15 ft; minimum daily discharge, 58 ft^3/s June 14, 17, gage height, 48.73 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	84	83	220	102	262	86	84	70	79	201	135
2	94	82	78	216	101	241	81	80	68	91	212	131
3	89	79	77	220	99	225	82	79	71	132	186	127
4	89	78	78	209	96	209	193	78	66	95	167	122
5	89	78	78	191	96	188	234	74	63	114	168	146
6	85	77	80	175	89	174	161	76	65	174	363	217
7	84	79	94	164	88	156	164	78	62	110	296	159
8	85	83	83	153	87	143	195	74	62	91	234	140
9	85	88	80	149	86	131	216	79	63	141	211	123
10	84	86	77	159	83	124	226	79	61	304	201	116
11	92	81	79	194	82	116	201	78	60	216	197	109
12	96	83	118	169	82	110	178	72	61	137	212	106
13	85	81	102	163	93	121	173	70	62	125	221	104
14	86	76	93	162	116	115	164	73	59	173	222	107
15	107	78	126	161	99	106	175	70	61	133	216	103
16	102	81	114	154	93	101	178	70	60	122	202	96
17	92	79	103	146	91	98	176	70	60	113	187	101
18	97	75	98	139	88	93	172	67	64	101	170	95
19	92	77	95	159	85	90	156	69	63	101	158	95
20	86	83	119	164	92	92	141	67	62	100	152	99
21	86	102	108	169	95	88	129	67	61	92	175	96
22	87	91	103	164	210	86	117	66	61	92	190	84
23	89	84	100	169	199	87	109	72	63	92	152	82
24	90	86	96	162	209	87	109	77	62	87	135	81
25	95	87	96	154	207	87	97	79	65	93	133	78
26	94	80	92	148	201	87	95	73	62	101	146	80
27	93	81	87	141	210	111	91	74	62	112	165	80
28	91	80	92	134	287	99	85	79	61	122	162	112
29	88	77	127	124	274	93	83	73	64	132	148	93
30	86	80	230	119	---	87	85	76	70	146	144	88
31	82	---	225	102	---	85	---	73	---	168	143	---
TOTAL	2802	2456	3211	5053	3740	3892	4352	2296	1894	3889	5869	3305
MEAN	90.4	81.9	104	163	129	126	145	74.1	63.1	125	189	110
MAX	107	102	230	220	287	262	234	84	71	304	363	217
MIN	82	75	77	102	82	85	81	66	59	79	133	78
AC-FT	5560	4870	6370	10020	7420	7720	8630	4550	3760	7710	11640	6560

WTR YR 1984 TOTAL 42759 MEAN 117 MAX 363 MIN 59 AC-FT 84810

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302010 HILLSBOROUGH RIVER BELOW CRYSTAL SPRINGS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.55	49.23	49.21	51.00	49.54	51.33	49.28	49.23	48.98	49.15	50.82	50.04
2	49.42	49.20	49.13	50.96	49.52	51.17	49.19	49.16	48.93	49.35	50.92	49.98
3	49.33	49.15	49.11	51.00	49.48	51.04	49.20	49.15	48.99	49.99	50.67	49.93
4	49.33	49.12	49.12	50.90	49.43	50.90	50.74	49.13	48.90	49.43	50.46	49.85
5	49.33	49.13	49.12	50.72	49.43	50.69	51.11	49.04	48.84	49.66	50.45	50.15
6	49.25	49.11	49.16	50.55	49.35	50.54	50.39	49.10	48.87	50.50	52.00	50.96
7	49.24	49.14	49.42	50.43	49.31	50.32	50.42	49.13	48.82	49.67	51.57	50.35
8	49.26	49.21	49.23	50.28	49.29	50.15	50.76	49.05	48.81	49.37	51.11	50.11
9	49.26	49.32	49.16	50.22	49.26	49.99	50.96	49.14	48.84	50.10	50.91	49.86
10	49.24	49.27	49.10	50.34	49.21	49.88	51.05	49.15	48.79	51.62	50.82	49.76
11	49.39	49.18	49.13	50.75	49.19	49.77	50.82	49.13	48.77	50.91	50.78	49.67
12	49.45	49.22	49.78	50.48	49.19	49.68	50.58	49.02	48.80	50.07	50.92	49.61
13	49.26	49.19	49.55	50.41	49.38	49.83	50.53	48.98	48.81	49.89	51.01	49.58
14	49.28	49.09	49.40	50.40	49.77	49.74	50.42	49.03	48.76	50.51	51.02	49.64
15	49.63	49.13	49.91	50.38	49.39	49.61	50.55	48.98	48.79	50.02	50.96	49.56
16	49.56	49.18	49.73	50.29	49.38	49.53	50.58	48.97	48.78	49.86	50.83	49.45
17	49.39	49.14	49.57	50.19	49.35	49.48	50.56	48.97	48.77	49.71	50.68	49.53
18	49.47	49.06	49.48	50.09	49.29	49.39	50.51	48.92	48.86	49.53	50.49	49.43
19	49.39	49.10	49.44	50.37	49.25	49.34	50.31	48.95	48.84	49.53	50.35	49.44
20	49.27	49.22	49.82	50.43	49.36	49.38	50.12	48.91	48.82	49.52	50.27	49.51
21	49.27	49.55	49.64	50.49	49.42	49.31	49.96	48.91	48.79	49.38	50.53	49.45
22	49.29	49.37	49.57	50.43	50.91	49.27	49.77	48.91	48.80	49.38	50.71	49.24
23	49.33	49.23	49.52	50.49	50.79	49.29	49.66	49.02	48.84	49.37	50.27	49.19
24	49.35	49.27	49.45	50.40	50.90	49.29	49.65	49.10	48.82	49.29	50.04	49.19
25	49.44	49.29	49.45	50.31	50.88	49.28	49.47	49.14	48.88	49.40	50.02	49.13
26	49.42	49.16	49.39	50.23	50.82	49.29	49.44	49.03	48.81	49.54	50.19	49.16
27	49.40	49.16	49.29	50.14	50.91	49.68	49.36	49.05	48.82	49.70	50.43	49.16
28	49.36	49.17	49.38	50.05	51.51	49.50	49.26	49.14	48.79	49.85	50.40	49.71
29	49.32	49.11	49.98	49.90	51.42	49.41	49.21	49.04	48.86	50.00	50.22	49.41
30	49.29	49.17	51.48	49.82	---	49.30	49.26	49.08	48.96	50.19	50.16	49.32
31	49.19	---	51.04	49.54	---	49.24	---	49.04	---	50.47	50.14	---
MEAN	49.35	49.20	49.54	50.39	49.83	49.83	50.10	49.05	48.84	49.84	50.65	49.65
MAX	49.63	49.55	51.48	51.00	51.51	51.33	51.11	49.23	48.99	51.62	52.00	50.96
MIN	49.19	49.06	49.10	49.54	49.19	49.24	49.19	48.91	48.76	49.15	50.02	49.13

WTR YR 1984 MEAN 49.69 MAX 52.00 MIN 48.76

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

LOCATION.--Lat 28°08'25", long 82°09'00", in NW¼ sec.18, T.27 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, on downstream side of center pier of bridge on State Highway 39, 2.0 mi downstream from Itchepackesassa Creek, 4.4 mi northwest of Knights, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--110 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WRD FL 1969: 1953 (P).

GAGE.--Water-stage recorder. Datum of gage is 70.56 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--33 years, 83.5 ft^3/s, 10.31 in/yr, 60,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft^3/s Mar. 18, 1960, gage height, 9.70 ft; no flow May 22-29, 1977, May 18 to June 4, 1981; minimum gage height, -0.13 ft May 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	0715	*868	*6.14	Apr. 5	0515	840	6.06

Minimum discharge, 5.9 ft^3/s Sept. 27, gage height, 0.63 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	22	31	458	45	107	24	11	27	28	401	29
2	37	20	30	232	42	80	20	11	21	55	287	24
3	33	19	27	171	42	69	21	11	19	180	159	22
4	30	18	31	129	42	59	334	9.6	17	164	112	19
5	28	18	35	105	38	53	784	8.2	18	99	88	25
6	27	19	38	90	34	49	480	8.2	18	65	94	36
7	25	19	64	78	32	46	211	12	17	47	97	36
8	23	22	52	68	31	46	140	15	19	38	298	28
9	24	25	45	62	28	45	100	22	15	123	288	22
10	22	24	42	116	27	35	93	24	12	223	178	19
11	25	24	40	336	26	29	74	20	11	108	128	17
12	55	21	135	187	25	28	60	14	9.8	74	124	15
13	62	19	158	144	50	61	52	11	9.8	47	129	14
14	77	17	114	128	273	61	49	9.5	9.9	47	97	15
15	230	16	371	114	151	49	57	9.0	8.9	43	86	13
16	141	18	302	94	87	40	56	8.3	11	43	71	11
17	111	19	170	88	69	34	48	7.9	13	37	59	9.8
18	107	17	145	82	54	30	39	8.0	51	41	58	9.2
19	85	16	119	185	47	27	34	7.5	34	43	48	11
20	67	22	212	188	47	26	30	7.2	21	54	46	17
21	57	69	198	170	57	28	25	8.1	17	52	90	16
22	51	48	137	129	326	26	25	9.2	15	40	171	11
23	48	39	109	102	325	26	22	26	14	38	113	9.4
24	48	35	91	92	157	35	22	96	17	38	88	8.0
25	39	36	72	83	103	31	23	65	19	66	99	7.1
26	34	36	61	78	79	27	19	45	19	86	97	6.6
27	29	33	60	71	84	45	17	39	18	159	78	7.5
28	26	29	56	67	254	44	14	43	16	94	63	76
29	24	29	285	61	161	39	13	32	20	57	52	80
30	23	27	827	54	---	33	11	38	22	46	43	43
31	22	---	700	49	---	28	---	36	---	97	35	---
TOTAL	1652	776	4757	4011	2736	1336	2897	671.7	539.4	2332	3777	656.6
MEAN	53.3	25.9	153	129	94.3	43.1	96.6	21.7	18.0	75.2	122	21.9
MAX	230	69	827	458	326	107	784	96	51	223	401	80
MIN	22	16	27	49	25	26	11	7.2	8.9	28	35	6.6
CFSM	.49	.24	1.39	1.17	.86	.39	.88	.20	.16	.68	1.11	.20
IN.	.56	.26	1.61	1.36	.93	.45	.98	.23	.18	.79	1.28	.22
AC-FT	3280	1540	9440	7960	5430	2650	5750	1330	1070	4630	7490	1300

CAL YR 1983 TOTAL 50793.0 MEAN 139 MAX 1090 MIN 3.0 CFSM 1.26 IN 17.18 AC-FT 100700
WTR YR 1984 TOTAL 26141.7 MEAN 71.4 MAX 827 MIN 6.6 CFSM .65 IN 8.84 AC-FT 51850

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.40	1.05	1.21	4.51	1.44	2.19	1.16	.93	1.30	1.32	4.27	1.15
2	1.32	1.01	1.20	3.23	1.41	1.92	1.09	.93	1.19	1.71	3.61	1.07
3	1.26	.98	1.16	2.77	1.41	1.79	1.10	.94	1.13	2.84	2.67	1.03
4	1.21	.97	1.22	2.40	1.40	1.68	3.30	.90	1.09	2.71	2.20	.97
5	1.17	.97	1.29	2.16	1.35	1.60	5.87	.85	1.11	2.19	1.91	1.09
6	1.15	.98	1.33	1.99	1.30	1.54	4.60	.85	1.10	1.88	1.98	1.27
7	1.11	.98	1.70	1.87	1.26	1.50	3.08	.97	1.09	1.66	2.00	1.27
8	1.08	1.05	1.54	1.74	1.26	1.50	2.51	1.03	1.15	1.53	3.68	1.15
9	1.09	1.11	1.44	1.67	1.21	1.49	2.15	1.17	1.04	2.33	3.62	1.04
10	1.05	1.10	1.40	2.16	1.18	1.35	2.08	1.22	.97	3.15	2.82	.98
11	1.12	1.10	1.37	3.90	1.16	1.26	1.89	1.14	.93	2.27	2.38	.91
12	1.58	1.03	2.37	2.90	1.15	1.24	1.72	1.00	.90	1.96	2.34	.88
13	1.68	.98	2.66	2.55	1.47	1.68	1.62	.93	.90	1.66	2.39	.86
14	1.81	.94	2.23	2.39	3.52	1.70	1.58	.89	.91	1.66	2.04	.89
15	3.22	.93	4.10	2.26	2.59	1.55	1.69	.87	.87	1.61	1.90	.84
16	2.52	.96	3.69	2.05	1.98	1.42	1.68	.85	.95	1.62	1.72	.78
17	2.23	.98	2.77	1.97	1.77	1.33	1.57	.84	1.00	1.53	1.56	.75
18	2.18	.94	2.56	1.91	1.59	1.27	1.46	.84	1.67	1.58	1.56	.73
19	1.94	.92	2.31	2.83	1.50	1.22	1.38	.83	1.43	1.61	1.42	.78
20	1.74	1.04	3.08	2.91	1.50	1.20	1.33	.82	1.19	1.75	1.40	.93
21	1.61	1.75	2.98	2.76	1.64	1.24	1.24	.85	1.10	1.73	1.93	.91
22	1.52	1.48	2.48	2.41	3.78	1.20	1.24	.89	1.04	1.57	2.77	.80
23	1.48	1.34	2.21	2.13	3.83	1.20	1.19	1.19	1.03	1.54	2.23	.74
24	1.48	1.29	2.01	2.02	2.65	1.34	1.18	2.13	1.08	1.53	1.94	.70
25	1.36	1.31	1.79	1.92	2.15	1.28	1.21	1.81	1.14	1.89	2.07	.67
26	1.27	1.29	1.66	1.87	1.89	1.22	1.12	1.57	1.16	2.05	2.05	.66
27	1.20	1.25	1.65	1.79	1.94	1.48	1.08	1.48	1.11	2.68	1.83	.68
28	1.14	1.19	1.59	1.74	3.38	1.48	1.02	1.54	1.08	2.15	1.64	1.81
29	1.10	1.19	3.10	1.66	2.69	1.40	.97	1.37	1.17	1.79	1.49	1.88
30	1.07	1.16	6.02	1.57	---	1.31	.94	1.47	1.22	1.65	1.36	1.41
31	1.06	---	5.57	1.50	---	1.24	---	1.44	---	2.15	1.25	---
MEAN	1.49	1.11	2.31	2.31	1.91	1.45	1.80	1.11	1.10	1.91	2.19	.99
MAX	3.22	1.75	6.02	4.51	3.83	2.19	5.87	2.13	1.67	3.15	4.27	1.88
MIN	1.05	.92	1.16	1.50	1.15	1.20	.94	.82	.87	1.32	1.25	.66

CAL YR 1983 MEAN 2.05 MAX 6.70 MIN .52
WTR YR 1984 MEAN 1.64 MAX 6.02 MIN .66

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT											
19...	1028	1.96	87	170	159	7.2	7.3	24.5	160	3.5	19
NOV											
03...	1215	.99	20	260	--	7.6	--	22.0	--	6.6	--
JAN											
13...	1200	2.57	146	182	--	6.7	--	13.0	--	8.7	--
MAR											
01...	1335	2.20	103	203	--	7.2	--	12.0	--	8.7	--
17...	1355	1.33	34	--	--	--	--	--	--	--	--
MAY											
01...	1150	.94	11	331	--	7.4	--	23.0	--	6.3	--
22...	0953	.88	9.1	378	--	7.3	--	23.0	--	6.8	--
JUN											
28...	0915	1.07	16	410	--	7.3	--	25.0	--	2.6	--
AUG											
28...	0930	1.67	65	167	--	6.7	--	24.0	--	6.5	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
19...	3.2	7.7	3.2	8.4	11	.40	7.7	134	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	.010	.80	.010
JAN											
13...	--	--	--	--	--	--	--	--	.040	.75	.270
MAR											
01...	--	--	--	--	--	--	--	--	.060	.77	.430
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	.010	.76	.050
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	1.00	6.0	5.60
AUG											
28...	--	--	--	--	--	--	--	--	.020	.67	.040

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
19...	--	--	--	270	2	<1	4	550	220	330	2
NOV											
03...	.90	.750	.710	--	--	--	--	--	--	--	--
JAN											
13...	1.4	.920	.840	--	--	--	--	--	--	--	--
MAR											
01...	1.6	.910	.790	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	.82	.790	.780	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	7.2	3.80	3.60	--	--	--	--	--	--	--	--
AUG											
28...	1.4	.680	.650	--	--	--	--	--	--	--	--

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB) (01050)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN) (01054)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT										
19...	0	2	20	10	10	<1	110	20	25	47
MAY										
22...	--	--	--	--	--	--	--	--	22	--

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°08'59", long 82°13'57", in SW¼ sec.8, T.27 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, on left bank 30 ft downstream from footbridge in Hillsborough River State Park, 1.2 mi downstream from Blackwater Creek, 6.5 mi southwest of Zephyrhills, and 40 mi upstream from mouth.

DRAINAGE AREA.--220 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 33.28 ft National Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Mar. 22, 1963, nonrecording gage at same site and datum.

REMARKS.--Records good. Records include high-water diversions above station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland (station no. 02311000).

AVERAGE DISCHARGE.--45 years, 258 ft^3/s, 186,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s Mar. 18, 1960, gage height, 15.33 ft; minimum, 44 ft^3/s May 27, 28, 30, 31, 1977, gage height, 0.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft^3/s Dec. 30, gage height, 6.57 ft, no other peak above base of 1,200 ft^3/s; minimum, 67 ft^3/s June 14, 15, gage height, 0.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	111	121	824	191	439	124	98	112	113	619	178
2	154	112	121	551	177	381	116	96	106	162	679	166
3	142	108	117	475	173	347	113	96	106	301	456	157
4	132	106	116	409	172	315	383	97	104	294	354	147
5	128	105	119	361	167	289	1010	97	101	230	301	158
6	118	104	123	321	154	267	767	98	106	300	465	256
7	117	105	162	293	144	246	441	97	107	200	447	217
8	115	112	157	266	142	224	379	92	95	156	552	184
9	114	122	138	249	140	214	345	100	80	224	511	158
10	114	121	130	278	133	194	343	111	75	591	429	143
11	123	116	128	552	130	177	310	108	73	419	353	134
12	148	113	222	433	127	165	271	97	70	277	367	126
13	166	109	301	376	145	196	250	89	72	214	380	122
14	166	102	230	356	366	214	237	89	69	278	344	121
15	316	100	444	339	320	187	256	88	68	229	322	121
16	289	105	467	308	233	168	254	86	69	219	295	109
17	237	105	339	288	205	160	235	86	70	199	260	108
18	237	101	309	277	184	149	224	83	140	180	239	107
19	213	99	277	351	164	138	218	83	105	180	218	105
20	182	107	370	411	164	133	190	81	93	190	213	112
21	165	178	377	401	180	132	170	80	86	184	330	112
22	157	166	309	365	561	128	150	80	75	171	484	102
23	153	141	268	329	631	125	140	86	77	161	356	92
24	157	134	241	307	455	135	140	171	79	152	279	90
25	157	134	213	286	375	133	135	172	80	186	266	88
26	147	128	190	271	329	128	130	141	81	218	271	86
27	138	122	177	259	333	173	120	126	81	333	268	87
28	131	121	176	248	633	172	110	123	78	272	251	174
29	125	117	362	230	533	154	100	120	80	233	224	209
30	120	118	1150	217	---	139	100	110	93	227	204	156
31	114	---	1060	202	---	127	---	118	---	296	191	---
TOTAL	4943	3522	8914	10833	7661	6149	7761	3199	2631	7389	10928	4125
MEAN	159	117	288	349	264	198	259	103	87.7	238	353	138
MAX	316	178	1150	824	633	439	1010	172	140	591	679	256
MIN	114	99	116	202	127	125	100	80	68	113	191	86
AC-FT	9800	6990	17680	21490	15200	12200	15390	6350	5220	14660	21680	8180

CAL YR 1983 TOTAL 125955 MEAN 345 MAX 1750 MIN 76 AC-FT 249800
WTR YR 1984 TOTAL 78055 MEAN 213 MAX 1150 MIN 68 AC-FT 154800

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.60	1.18	1.26	4.94	1.77	3.20	1.28	1.07	1.21	1.20	4.05	1.68
2	1.51	1.19	1.26	3.75	1.67	2.90	1.22	1.08	1.16	1.57	4.33	1.59
3	1.42	1.16	1.23	3.38	1.65	2.71	1.20	1.08	1.15	2.45	3.28	1.53
4	1.35	1.14	1.22	3.05	1.64	2.53	2.72	1.09	1.13	2.41	2.75	1.45
5	1.31	1.13	1.25	2.79	1.60	2.38	5.69	1.09	1.11	2.03	2.45	1.53
6	1.24	1.12	1.27	2.56	1.51	2.26	4.71	1.10	1.15	2.44	3.33	2.19
7	1.23	1.13	1.56	2.41	1.43	2.13	3.21	1.09	1.16	1.83	3.24	1.94
8	1.22	1.19	1.53	2.25	1.42	1.99	2.88	1.05	1.05	1.52	3.75	1.72
9	1.21	1.27	1.39	2.15	1.40	1.92	2.70	1.12	.91	1.95	3.56	1.54
10	1.20	1.26	1.33	2.31	1.36	1.79	2.69	1.21	.86	3.93	3.14	1.43
11	1.28	1.22	1.32	3.75	1.33	1.67	2.50	1.19	.85	3.09	2.74	1.36
12	1.46	1.20	1.95	3.17	1.31	1.59	2.28	1.09	.83	2.31	2.82	1.30
13	1.59	1.17	2.45	2.87	1.44	1.80	2.16	1.02	.85	1.92	2.89	1.27
14	1.59	1.11	2.03	2.76	2.81	1.93	2.08	1.02	.82	2.32	2.69	1.26
15	2.52	1.09	3.21	2.66	2.56	1.74	2.19	1.01	.81	2.02	2.57	1.26
16	2.38	1.13	3.34	2.49	2.04	1.61	2.18	1.00	.82	1.96	2.42	1.17
17	2.07	1.13	2.66	2.38	1.86	1.55	2.07	1.00	.82	1.82	2.21	1.16
18	2.07	1.10	2.49	2.32	1.72	1.47	2.00	.97	1.12	1.69	2.08	1.15
19	1.92	1.08	2.31	2.72	1.58	1.39	1.96	.97	1.16	1.69	1.95	1.13
20	1.71	1.15	2.83	3.06	1.58	1.35	1.78	.95	1.06	1.76	1.92	1.19
21	1.59	1.68	2.87	3.01	1.69	1.35	1.62	.94	.90	1.72	2.58	1.19
22	1.53	1.59	2.50	2.81	3.75	1.32	1.48	.94	.89	1.63	3.42	1.11
23	1.50	1.41	2.26	2.61	4.11	1.30	1.41	1.00	.88	1.56	2.76	1.02
24	1.52	1.36	2.10	2.48	3.28	1.36	1.41	1.64	.90	1.49	2.32	1.00
25	1.52	1.36	1.92	2.36	2.87	1.35	1.37	1.65	.91	1.73	2.25	.98
26	1.46	1.31	1.76	2.28	2.61	1.31	1.33	1.43	.93	1.95	2.28	.97
27	1.39	1.27	1.67	2.21	2.62	1.64	1.25	1.32	.92	2.63	2.26	.98
28	1.33	1.26	1.67	2.14	4.13	1.64	1.17	1.30	.89	2.29	2.16	1.64
29	1.29	1.23	2.65	2.03	3.66	1.51	1.09	1.27	.91	2.04	1.99	1.89
30	1.25	1.24	6.23	1.94	---	1.40	1.09	1.20	1.02	2.01	1.86	1.52
31	1.21	---	5.89	1.85	---	1.31	---	1.24	---	2.42	1.77	---
MEAN	1.53	1.23	2.24	2.69	2.15	1.79	2.09	1.13	.97	2.04	2.70	1.37
MAX	2.52	1.68	6.23	4.94	4.13	3.20	5.69	1.65	1.21	3.93	4.33	2.19
MIN	1.20	1.08	1.22	1.85	1.31	1.30	1.09	.94	.81	1.20	1.77	.97

CAL YR 1983 MEAN 2.44 MAX 8.29 MIN .87
WTR YR 1984 MEAN 1.83 MAX 6.23 MIN .81

HILLSBOROUGH RIVER BASIN

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SPECIFIC CONDUCTANCE LAB (US/CM) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
OCT												
19...	0845	--	1.95	--	218	255	246	7.5	7.8	24.0	100	--
DEC												
06...	1100	--	1.25	--	120	317	335	6.5	7.6	23.5	--	1.0
FEB												
21...	1445	--	1.62	--	170	316	303	5.5	7.6	22.0	--	2.3
27...	1205	--	2.43	--	288	247	--	7.5	--	19.0	--	--
MAY												
02...	1555	--	1.08	--	91	335	--	7.6	--	23.5	--	--
22...	1040	--	.91	--	80	332	--	7.6	--	24.0	--	--
JUN												
04...	1400	--	1.13	--	104	298	305	7.0	7.8	24.0	--	3.4
28...	1115	--	.88	--	77	315	--	8.2	--	24.5	--	--
AUG												
28...	1150	--	2.18	--	254	205	--	7.1	--	24.0	--	--
SEP												
07...	1337	1.00	--	10.0	--	259	--	7.1	--	24.0	--	--
07...	1339	1.00	--	20.0	--	257	--	7.1	--	24.0	--	--
07...	1341	1.00	--	30.0	--	257	--	7.1	--	24.0	--	--
07...	1343	1.00	--	40.0	--	257	--	7.1	--	24.0	--	--
07...	1345	1.00	--	50.0	--	256	--	7.1	--	24.0	--	--
07...	1347	1.00	--	60.0	--	257	--	7.1	--	24.0	--	--
07...	1349	1.00	--	70.0	--	257	--	7.1	--	24.0	--	--
07...	1351	1.00	--	80.0	--	257	--	7.1	--	24.0	--	--
07...	1415	--	--	--	210	257	257	7.1	7.6	24.0	--	1.8

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ACIDITY (MG/L AS H) (71825)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT												
19...	5.8	--	--	--	--	39	3.5	6.5	2.0	11	9.0	.50
DEC												
06...	7.5	360	K43	K57	120	53	4.5	8.5	1.6	12	12	.30
FEB												
21...	8.6	310	110	K23	--	47	4.4	8.8	2.3	12	15	.30
27...	6.1	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	6.6	--	--	--	--	--	--	--	--	--	--	--
22...	7.2	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	7.1	480	32	20	--	50	3.8	5.7	1.3	12	10	.20
28...	6.9	--	--	--	--	--	--	--	--	--	--	--
AUG												
28...	6.2	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	8.0	--	--	--	--	--	--	--	--	--	--	--
07...	7.6	--	--	--	--	--	--	--	--	--	--	--
07...	7.5	--	--	--	--	--	--	--	--	--	--	--
07...	7.6	--	--	--	--	--	--	--	--	--	--	--
07...	7.5	--	--	--	--	--	--	--	--	--	--	--
07...	7.8	--	--	--	--	--	--	--	--	--	--	--
07...	7.1	--	--	--	--	--	--	--	--	--	--	--
07...	7.2	--	--	--	--	--	--	--	--	--	--	--
07...	7.5	83	82	190	--	41	3.3	6.3	1.5	10	11	.30

NATIONAL STREAM-QUALITY ACCOUNTING NETWORK DATA

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT												
19...	8.9	172	--	--	--	--	--	--	--	--	--	--
DEC												
06...	9.7	204	--	--	1.3	--	.070	.60	.390	1.2	.380	--
FEB												
21...	8.0	196	--	--	1.2	--	<.010	.80	.510	1.6	.500	--
27...	--	--	.030	.95	--	.040	--	.75	.490	--	--	.450
MAY												
02...	--	--	.010	1.7	--	.040	--	.36	.220	--	--	.210
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	8.5	205	--	--	1.6	--	<.010	1.5	.340	--	.310	--
28...	--	--	<.010	1.4	--	.030	--	.35	.280	--	--	.240
AUG												
28...	--	--	.010	.66	--	.020	--	.77	.320	--	--	.290
SEP												
07...	7.7	204	--	--	.97	--	.020	.40	.360	--	.340	--

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT												
19...	--	140	--	--	2	--	--	<1	--	--	--	1
DEC												
06...	.440	--	40	3	--	22	<.5	--	<1	30	<3	1
FEB												
21...	.460	--	20	1	--	17	<.5	--	<1	<1	<3	2
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	.290	--	<10	1	--	11	1.0	--	<1	<1	<3	1
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	.310	--	30	1	--	13	<.0	--	<1	1	<3	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT												
19...	360	120	240	2	0	2	--	10	0	10	--	--
DEC												
06...	--	--	82	--	--	3	<4	--	--	3	<.1	<10
FEB												
21...	--	--	200	--	--	1	<4	--	--	5	.1	<10
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	--	--	73	--	--	1	10	--	--	3	<.1	<10
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	230	--	--	1	<4	--	--	6	<.1	<10

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 19...	<1	--	--	--	240	--	10	12	--	--	98
DEC 06...	--	1	<1	<1	270	<6	15	--	6	17	141
FEB 21...	--	2	<1	2	240	<6	12	--	6	50	123
MAY 22...	--	--	--	--	--	--	--	12	--	--	--
JUN 04...	--	<1	<1	<1	270	<6	18	--	7	29	125
SEP 07...	--	1	<1	<1	190	<6	9	--	5	60	98

HILLSBOROUGH RIVER BASIN

02303300 FLINT CREEK NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°04'04", long 82°16'03", in NW¼ sec.12, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, 40 ft downstream from bridge, 50 ft downstream from control structure, 600 ft downstream from Lake Thonotosassa, 2.0 mi northeast of Thonotosassa, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--60 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1956 to December 1958; March to September 1970 (discharge measurements only); October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1975, at site 90 ft upstream at datum 32.15 ft higher; Oct. 1, 1975, to Oct. 3, 1979, at former site at present datum.

REMARKS.--Records fair. Flow regulated by manipulation of stoplogs, baseflow orifice pipes, and vertical lift gates in control structure. Prior to December 1975, flow regulated by manipulation of stoplogs in control structure. Gage heights prior to Oct. 3, 1979, represent lake stages above control structure. Gage heights after Oct. 3, 1979, represent stream stages below control structure.

COOPERATION.--Records of control changes furnished by Southwest Florida Water Management District.

AVERAGE DISCHARGE.--16 years (water years 1957-58, 1971-84), 37.7 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 588 ft^3/s Oct. 2, 1979; maximum gage height, 37.87 ft Sept. 30, Oct. 1, 1979; no flow at times some years; minimum gage height, 30.92 ft July 18, 19, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 199 ft^3/s Aug. 2; maximum gage height, 35.55 ft Aug. 1; minimum daily, 0.98 ft^3/s June 12; minimum gage height, 31.26 ft June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	19	20	145	38	74	30	10	30	51	128	86
2	26	19	20	133	36	56	28	23	28	66	199	80
3	26	18	20	119	31	26	27	40	26	104	165	75
4	25	18	20	110	25	28	65	37	25	122	150	58
5	25	18	19	102	25	29	81	36	24	105	138	43
6	25	16	21	70	24	31	77	36	23	79	128	44
7	24	16	25	25	23	31	74	37	17	49	120	43
8	23	18	23	28	23	30	70	30	2.4	46	115	41
9	23	18	21	30	22	30	66	29	1.4	45	94	39
10	22	19	21	52	23	30	62	27	1.2	50	82	38
11	23	19	21	72	23	29	57	23	1.1	48	86	35
12	24	18	36	69	23	28	54	21	.98	45	88	34
13	24	17	35	81	27	35	51	19	1.6	45	88	32
14	24	16	38	93	33	35	50	18	4.0	48	86	31
15	26	15	106	87	33	34	53	16	3.7	48	84	30
16	27	16	110	83	32	33	49	16	3.4	53	79	28
17	28	15	91	79	32	32	45	14	9.9	55	77	26
18	29	13	91	74	32	31	44	10	22	71	74	25
19	28	13	88	84	31	30	27	2.0	21	66	71	25
20	28	17	89	63	31	30	9.8	1.2	27	81	73	25
21	27	24	86	49	32	30	10	4.5	38	80	84	24
22	26	24	83	48	74	28	11	12	36	103	94	22
23	25	24	80	49	94	30	12	12	35	122	92	21
24	28	25	76	49	87	31	12	12	35	140	92	20
25	29	25	69	49	82	31	11	13	34	141	92	12
26	27	24	65	49	75	31	11	13	35	127	135	3.9
27	25	23	48	49	77	36	11	13	35	111	119	4.0
28	23	23	31	47	89	37	12	13	33	89	111	32
29	22	22	71	45	79	36	11	20	34	84	105	23
30	21	21	147	42	---	32	11	33	36	82	98	25
31	19	---	159	40	---	31	---	32	---	83	92	---
TOTAL	777	573	1830	2115	1256	1035	1131.8	622.7	623.68	2439	3239	1024.9
MEAN	25.1	19.1	59.0	68.2	43.3	33.4	37.7	20.1	20.8	78.7	104	34.2
MAX	29	25	159	145	94	74	81	40	38	141	199	86
MIN	19	13	19	25	22	26	9.8	1.2	.98	45	71	3.9
AC-FT	1540	1140	3630	4200	2490	2050	2240	1240	1240	4840	6420	2030

CAL YR 1983 TOTAL 21699.67 MEAN 59.5 MAX 234 MIN .59 AC-FT 43040
WTR YR 1984 TOTAL 16667.08 MEAN 45.5 MAX 199 MIN .98 AC-FT 33060

HILLSBOROUGH RIVER BASIN

02303300 FLINT CREEK NEAR THONOTOSASSA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.35	32.22	32.26	34.40	32.75	33.35	32.48	31.95	32.56	32.85	34.00	33.57
2	32.37	32.21	32.24	34.25	32.72	33.01	32.43	32.32	32.51	33.14	34.92	33.49
3	32.38	32.20	32.24	34.09	32.58	32.39	32.40	32.80	32.47	33.70	34.55	33.40
4	32.37	32.19	32.24	33.97	32.44	32.42	33.14	32.74	32.43	33.95	34.39	33.07
5	32.36	32.18	32.22	33.87	32.43	32.46	33.55	32.71	32.40	33.71	34.23	32.79
6	32.35	32.14	32.27	33.29	32.40	32.49	33.50	32.72	32.36	33.32	34.11	32.81
7	32.34	32.13	32.40	32.44	32.38	32.51	33.44	32.73	32.15	32.85	34.01	32.80
8	32.32	32.19	32.35	32.50	32.37	32.49	33.38	32.55	31.47	32.79	33.95	32.77
9	32.30	32.20	32.30	32.55	32.36	32.48	33.32	32.54	31.36	32.77	33.64	32.73
10	32.27	32.21	32.29	33.02	32.37	32.47	33.25	32.48	31.32	32.87	33.46	32.69
11	32.30	32.21	32.28	33.41	32.37	32.45	33.16	32.38	31.30	32.84	33.52	32.64
12	32.33	32.19	32.68	33.37	32.37	32.44	33.09	32.32	31.28	32.78	33.57	32.61
13	32.33	32.16	32.67	33.55	32.47	32.60	33.03	32.26	31.34	32.77	33.56	32.58
14	32.34	32.13	32.74	33.74	32.65	32.60	33.02	32.22	31.62	32.83	33.54	32.55
15	32.39	32.10	33.85	33.66	32.63	32.58	33.08	32.16	31.60	32.84	33.50	32.52
16	32.43	32.12	33.95	33.59	32.62	32.56	33.00	32.13	31.57	32.92	33.43	32.48
17	32.44	32.09	33.70	33.52	32.61	32.53	32.91	32.08	31.81	32.95	33.39	32.43
18	32.47	32.04	33.71	33.44	32.60	32.51	32.89	31.91	32.33	33.24	33.34	32.40
19	32.46	32.02	33.67	33.61	32.59	32.48	32.44	31.42	32.20	33.15	33.30	32.42
20	32.44	32.14	33.68	33.25	32.59	32.48	31.94	31.31	32.36	33.39	33.33	32.41
21	32.43	32.37	33.63	32.99	32.62	32.47	31.94	31.57	32.62	33.37	33.51	32.38
22	32.41	32.37	33.59	32.98	33.40	32.44	31.97	32.00	32.57	33.73	33.68	32.35
23	32.39	32.38	33.55	32.99	33.72	32.47	32.00	32.02	32.55	33.99	33.65	32.31
24	32.47	32.40	33.48	32.99	33.59	32.51	32.00	32.02	32.55	34.23	33.66	32.27
25	32.48	32.42	33.37	33.00	33.49	32.51	31.98	32.04	32.55	34.25	33.65	31.99
26	32.43	32.38	33.30	32.99	33.39	32.50	31.97	32.05	32.56	34.08	34.23	31.61
27	32.38	32.35	32.96	32.98	33.40	32.62	31.98	32.05	32.56	33.85	34.03	31.60
28	32.34	32.34	32.59	32.95	33.60	32.65	32.00	32.05	32.52	33.54	33.92	32.61
29	32.31	32.32	33.29	32.90	33.45	32.62	31.99	32.25	32.53	33.46	33.84	32.37
30	32.27	32.29	34.41	32.85	---	32.54	31.99	32.66	32.58	33.43	33.75	32.44
31	32.23	---	34.55	32.80	---	32.51	---	32.62	---	33.44	33.66	---
MEAN	32.37	32.22	33.05	33.29	32.79	32.55	32.64	32.23	32.13	33.32	33.78	32.57
MAX	32.48	32.42	34.55	34.40	33.72	33.35	33.55	32.80	32.62	34.25	34.92	33.57
MIN	32.23	32.02	32.22	32.44	32.36	32.39	31.94	31.31	31.28	32.77	33.30	31.60

CAL YR 1983 MEAN 32.87 MAX 35.27 MIN 31.11
WTR YR 1984 MEAN 32.75 MAX 34.92 MIN 31.28

HILLSBOROUGH RIVER BASIN

02303300 FLINT CREEK NEAR THONOTOSASSA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1957, 1966-67, 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
18...	1245	32.47	29	185	7.4	27.0	7.1
NOV							
02...	1340	32.21	19	238	8.3	23.5	8.8
JAN							
11...	1200	33.42	69	251	8.0	14.0	9.8
MAR							
01...	1035	33.36	77	258	8.3	14.5	10.0
MAY							
02...	1150	31.97	11	280	7.9	27.0	6.8
15...	1145	32.17	16	--	--	--	--
22...	1145	32.00	12	312	8.4	27.5	8.5
JUN							
28...	1245	35.52	34	320	9.3	30.5	8.6
AUG							
28...	1315	33.92	111	218	7.5	29.0	7.4
SEP							
11...	1033	32.64	35	--	--	--	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT						
18...	--	--	--	--	--	17
NOV						
02...	.010	.21	.010	1.4	.580	--
JAN						
11...	.020	.87	.030	1.6	.690	--
MAR						
01...	.020	.48	.020	1.6	.620	--
MAY						
02...	.010	.02	.050	.90	.680	--
15...	--	--	--	--	--	--
22...	--	--	--	--	--	20
JUN						
28...	<.010	.02	.030	.88	.570	--
AUG						
28...	.010	<.02	.030	.98	.480	--
SEP						
11...	--	--	--	--	--	--

HILLSBOROUGH RIVER BASIN

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°05'50", long 82°18'45", in NW¼ sec.33, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on downstream side of bridge on State Highway 579, 2.9 mi north of Thonotosassa, 3.4 mi upstream from Trout Creek, and 29 mi upstream from mouth.

DRAINAGE AREA.--375 mi^2, approximately.

PERIOD OF RECORD.--April 1964 to April 1965 (fragmentary); May 1965 to September 1968 (gage heights only); October 1968 to June 1972 (gage heights and miscellaneous discharge measurements); July 1972 to current year. Miscellaneous discharge measurements for some periods prior to April 1964.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Oct. 16, 1972, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years (water years 1973-84), 262 ft^3/s, 9.48 in/yr, 189,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--1964-72: Maximum gage height observed, 32.22 ft Aug. 13, 14, 1965; minimum observed, 23.70 ft June 8, 9, 1972.

1972-84: Maximum discharge, 4,100 ft^3/s Sept. 24, 1979; maximum gage height, 32.75 ft Oct. 1, 1980, affected by backwater; minimum daily discharge, 36 ft^3/s July 24, 1972; minimum gage height, 23.51 ft June 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft^3/s Jan. 1, gage height, 29.00 ft; minimum, 66 ft^3/s June 13, gage height, 24.12 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	144	143	1340	276	747	159	108	127	160	401	339
2	229	137	141	1200	257	680	151	104	124	210	778	312
3	208	131	140	986	242	586	143	108	118	280	1080	286
4	192	128	139	821	229	488	178	114	111	350	965	263
5	178	125	137	702	217	418	225	115	104	367	789	251
6	167	123	139	606	206	371	643	114	99	381	652	233
7	158	123	147	517	197	333	883	121	96	356	597	224
8	151	130	148	423	187	302	749	123	88	323	627	232
9	146	131	155	367	179	277	598	118	78	271	673	236
10	142	132	159	353	174	255	499	114	75	236	685	226
11	158	135	160	360	168	237	435	113	70	297	639	211
12	170	135	188	477	164	224	394	111	68	431	584	193
13	162	133	196	609	164	223	357	105	68	412	550	177
14	165	130	233	590	175	217	325	99	81	346	522	163
15	176	126	320	560	201	216	320	94	74	294	489	153
16	193	122	418	528	286	218	314	90	71	285	446	146
17	242	119	573	492	310	213	303	87	73	280	418	139
18	272	117	570	454	285	203	290	84	102	269	395	133
19	263	115	525	450	258	191	275	79	110	267	357	133
20	252	122	517	457	237	179	253	74	113	250	335	135
21	237	142	518	518	226	168	223	72	111	245	362	132
22	220	152	549	531	251	158	200	74	108	230	409	128
23	205	163	525	523	394	157	182	82	108	225	538	123
24	205	172	465	488	715	156	170	95	113	245	599	117
25	206	169	402	448	722	155	157	108	109	300	530	110
26	199	163	358	415	622	154	147	120	118	354	458	100
27	190	159	325	387	553	159	138	124	131	361	447	93
28	177	155	297	362	542	161	130	125	124	381	463	160
29	167	151	317	337	670	166	122	123	130	397	448	178
30	158	147	463	316	---	169	114	128	120	383	414	193
31	151	---	1170	296	---	166	---	129	---	361	375	---
TOTAL	5998	4131	10537	16913	9107	8347	9077	3255	3022	9547	17025	5519
MEAN	193	138	340	546	314	269	303	105	101	308	549	184
MAX	272	172	1170	1340	722	747	883	129	131	431	1080	339
MIN	142	115	137	296	164	154	114	72	68	160	335	93
CFSM	.52	.37	.91	1.46	.84	.72	.81	.28	.27	.82	1.46	.49
IN.	.59	.41	1.05	1.68	.90	.83	.90	.32	.30	.95	1.69	.55
AC-FT	11900	8190	20900	33550	18060	16560	18000	6460	5990	18940	33770	10950

CAL YR 1983 TOTAL 163935 MEAN 449 MAX 2090 MIN 67 CFSM 1.20 IN 16.26 AC-FT 325200
WTR YR 1984 TOTAL 102478 MEAN 280 MAX 1340 MIN 68 CFSM .75 IN 10.17 AC-FT 203300

HILLSBOROUGH RIVER BASIN

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.38	25.48	25.47	28.97	26.46	27.92	25.65	25.00	25.28	25.65	26.90	26.68
2	26.21	25.39	25.44	28.76	26.37	27.77	25.56	24.93	25.23	26.04	27.84	26.57
3	26.06	25.33	25.43	28.39	26.28	27.54	25.47	24.99	25.15	26.41	28.44	26.45
4	25.93	25.28	25.42	28.08	26.21	27.28	25.79	25.09	25.05	26.78	28.23	26.35
5	25.82	25.25	25.40	27.82	26.12	27.06	26.15	25.11	24.94	26.79	27.87	26.28
6	25.72	25.21	25.43	27.59	26.05	26.89	27.65	25.08	24.84	26.85	27.57	26.20
7	25.64	25.22	25.52	27.36	25.98	26.73	28.20	25.18	24.78	26.75	27.45	26.13
8	25.56	25.31	25.53	27.07	25.90	26.58	27.92	25.21	24.63	26.62	27.52	26.19
9	25.50	25.32	25.60	26.87	25.83	26.47	27.57	25.15	24.43	26.39	27.62	26.21
10	25.46	25.34	25.65	26.82	25.79	26.36	27.31	25.09	24.35	26.21	27.65	26.15
11	25.63	25.37	25.66	26.84	25.74	26.26	27.11	25.07	24.25	26.49	27.55	26.05
12	25.76	25.38	25.91	27.24	25.70	26.18	26.98	25.04	24.17	27.01	27.42	25.92
13	25.68	25.35	25.97	27.60	25.70	26.17	26.83	24.96	24.17	26.95	27.34	25.79
14	25.71	25.31	26.23	27.55	25.80	26.13	26.69	24.85	24.49	26.71	27.26	25.68
15	25.81	25.25	26.67	27.48	26.01	26.12	26.67	24.75	24.34	26.49	27.18	25.58
16	25.95	25.21	27.05	27.39	26.51	26.14	26.64	24.68	24.27	26.45	27.06	25.50
17	26.28	25.16	27.51	27.29	26.63	26.10	26.59	24.62	24.31	26.43	26.98	25.43
18	26.45	25.13	27.50	27.18	26.51	26.02	26.54	24.56	24.89	26.38	26.90	25.35
19	26.40	25.10	27.38	27.16	26.37	25.93	26.46	24.44	25.02	26.37	26.76	25.36
20	26.34	25.19	27.36	27.18	26.26	25.83	26.35	24.34	25.06	26.26	26.67	25.37
21	26.26	25.46	27.36	27.36	26.19	25.73	26.17	24.28	25.04	26.23	26.77	25.33
22	26.15	25.56	27.45	27.40	26.34	25.64	26.00	24.34	24.99	26.15	26.94	25.29
23	26.04	25.69	27.38	27.38	26.92	25.62	25.85	24.51	24.99	26.13	27.30	25.22
24	26.04	25.77	27.21	27.28	27.85	25.62	25.75	24.78	25.08	26.25	27.45	25.13
25	26.05	25.75	27.00	27.16	27.86	25.60	25.63	25.00	25.01	26.50	27.29	25.02
26	25.99	25.69	26.83	27.05	27.63	25.59	25.52	25.17	25.14	26.74	27.09	24.86
27	25.92	25.65	26.69	26.95	27.46	25.65	25.42	25.23	25.32	26.77	27.06	24.73
28	25.82	25.60	26.57	26.85	27.43	25.67	25.31	25.24	25.23	26.85	27.10	25.65
29	25.73	25.56	26.65	26.75	27.74	25.72	25.20	25.22	25.31	26.90	27.06	25.82
30	25.64	25.52	27.16	26.65	---	25.74	25.08	25.29	25.18	26.85	26.96	25.94
31	25.56	---	28.68	26.56	---	25.72	---	25.29	---	26.77	26.82	---
MEAN	25.92	25.39	26.49	27.36	26.47	26.25	26.34	24.92	24.83	26.52	27.29	25.74
MAX	26.45	25.77	28.68	28.97	27.86	27.92	28.20	25.29	25.32	27.01	28.44	26.68
MIN	25.46	25.10	25.40	26.56	25.70	25.59	25.08	24.28	24.17	25.65	26.67	24.73

CAL YR 1983	MEAN	26.53	MAX	29.84	MIN	24.15
WTR YR 1984	MEAN	26.13	MAX	28.97	MIN	24.17

HILLSBOROUGH RIVER BASIN

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°08'20", long 82°21'50", in SW¼ sec.13, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, at bridge on State Highway 581, 4.1 mi upstream from mouth, and 9.0 mi northeast of Sulphur Springs.

DRAINAGE AREA.--23 mi², approximately.

PERIOD OF RECORD.--September 1962 (miscellaneous high-water discharge measurements only); February 1964 to November 1966 (discharge measurements and crest-stage partial records); December 1966 to May 1974 (discharge measurements only); June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Sept. 12, 1974, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years (water years 1975-84), 20.3 ft³/s, 12.0 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1962-73: Maximum discharge measured, 1,380 ft³/s Sept. 22, 1969; no flow observed most years.

1974-84: Maximum discharge, 1,540 ft³/s June 28, 1974, gage height, 42.85 ft from floodmark; no flow many days each year; creek dry at gage many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 320 ft³/s Dec. 30, gage height, 39.97 ft; no flow for many days; minimum gage height, 34.77 ft June 11, 12-16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	.10	.64	204	13	105	4.2	.07	.76	3.1	38	4.2
2	3.7	.07	.59	144	11	81	3.5	.05	.36	9.3	79	3.1
3	2.8	.06	.58	104	9.8	62	2.9	.03	.14	61	53	2.3
4	2.1	.04	.45	75	9.2	46	26	.01	.08	37	26	1.6
5	1.6	.03	.33	55	8.8	34	117	.00	.05	19	22	1.2
6	1.1	.03	.37	39	7.8	26	110	.00	.01	42	22	.92
7	.69	.02	1.3	28	6.9	21	83	.01	.00	35	16	.60
8	.48	.03	1.9	22	6.3	17	64	.00	.00	14	13	.35
9	.34	.04	1.7	18	5.8	13	46	.00	.00	11	10	.25
10	.32	.05	1.3	24	5.5	11	35	.00	.00	13	8.3	.15
11	6.5	.07	.98	71	5.4	9.8	26	.00	.00	11	6.0	.09
12	5.3	.14	5.5	81	5.3	8.9	20	.00	.00	8.7	5.4	.07
13	4.7	.13	20	71	5.6	10	15	.00	.00	5.9	4.6	.04
14	4.2	.10	19	63	31	13	12	.00	.00	4.6	3.4	.02
15	4.3	.07	23	54	62	12	11	.00	.00	3.6	2.7	.01
16	6.0	.07	31	45	69	10	10	.00	.00	4.1	2.0	.00
17	8.7	.05	48	38	64	8.9	9.4	.00	.01	3.8	2.1	.00
18	7.7	.04	221	32	49	8.0	8.3	.00	2.2	3.0	2.4	.00
19	7.4	.03	202	46	37	6.4	6.2	.00	2.8	2.2	1.8	.00
20	5.2	.07	138	108	27	5.3	4.9	.00	1.2	1.8	1.6	.00
21	3.6	1.3	102	100	27	4.3	3.8	.00	.38	1.5	8.6	.00
22	2.5	4.5	77	80	139	3.6	2.9	.00	.16	2.5	30	.00
23	1.9	2.9	59	66	220	3.2	2.3	.00	.18	4.7	34	.00
24	1.5	1.8	43	53	183	3.0	1.8	.00	.31	4.1	26	.00
25	1.3	1.3	30	42	130	2.8	1.2	.94	.18	4.7	23	.00
26	.92	1.1	22	34	95	2.6	.77	1.7	.13	8.3	20	.00
27	.71	1.3	17	30	73	3.7	.47	1.1	.10	9.0	18	.00
28	.43	1.3	15	26	119	8.4	.26	.90	.11	8.8	15	.00
29	.27	1.1	38	22	128	7.9	.15	3.5	1.7	8.3	11	.00
30	.20	.84	266	18	---	6.5	.10	4.5	2.9	11	8.6	.01
31	.14	---	285	15	---	5.2	---	.72	---	11	5.7	---
TOTAL	91.10	18.68	1671.64	1808	1553.4	559.5	628.15	13.53	13.76	367.0	519.2	14.91
MEAN	2.94	.62	53.9	58.3	53.6	18.0	20.9	.44	.46	11.8	16.7	.50
MAX	8.7	4.5	285	204	220	105	117	4.5	2.9	61	79	4.2
MIN	.14	.02	.33	15	5.3	2.6	.10	.00	.00	1.5	1.6	.00
CFSM	.13	.03	2.34	2.54	2.33	.78	.91	.02	.02	.51	.73	.02
IN.	.15	.03	2.70	2.92	2.51	.90	1.02	.02	.02	.59	.84	.02

CAL YR 1983 TOTAL 13938.81 MEAN 38.2 MAX 397 MIN .00 CFSM 1.66 IN 22.54
WTR YR 1984 TOTAL 7258.87 MEAN 19.8 MAX 285 MIN .00 CFSM .86 IN 11.74

AVAILABLE

02303352 TROUT CREEK NEAR TEMPLE TERRACE, FL

LOCATION.--Lat 28°05'52", long 82°21'30", in NE¼ sec.36, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, near left bank, 80 ft upstream from wooden bridge, 1.1 mi upstream from mouth, 2.6 mi downstream from State Highway 581, and 4.9 mi northeast of Temple Terrace.

DRAINAGE AREA.--31 mi^2, approximately.

PERIOD OF RECORD.--1977, 1978 (miscellaneous discharge measurements); October 1980 to current year (discharge measurements only).

GAGE.--Nonrecording gage. Datum of gage has not been determined.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 61 ft^3/s June 7, 1982; no flow observed May 7, 29, 1981.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)
OCT			APR		
05...	1205	3.5	30...	1540	.39
NOV			MAY		
01...	1000	.81	30...	1100	1.6
DEC			JUL		
01...	1200	1.3	02...	1015	12
JAN			AUG		
09...	1640	23	31...	1145	9.9
MAR					
09...	1155	19			
26...	1050	4.8			

HILLSBOROUGH RIVER BASIN

02303354 HILLSBOROUGH RIVER AT STRUCTURE S-155 NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°05'16", long 82°21'05", in SW¼ sec.31, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on left bank at control structure S-155 at headwaters of Tampa Bypass Canal, 1.0 mi north of State Highway 579, 4.1 mi northwest of Thonotosassa, and 26 mi upstream from mouth.

DRAINAGE AREA.--410 mi², approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1982 to current year (gage heights only).

GAGE.--Water-stage recorder. Auxiliary gage at downstream side of structure. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated during flood stage by vertical lift gates. Normal gate position is fully open to allow river navigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 27.72 ft Sept. 7, 1983; minimum, 21.08 ft May 29, 30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.97 ft Jan. 2, 3; minimum, 22.20 ft June 17.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.69	23.24	23.23	25.66	24.15	25.10	23.34	23.29	23.11	23.25	24.40	24.12
2	23.57	23.21	23.21	25.92	23.95	25.09	23.33	23.27	23.11	23.37	24.70	24.02
3	23.49	23.17	23.20	25.93	23.85	24.99	23.34	23.25	23.10	23.71	25.18	23.91
4	23.44	23.17	23.19	25.77	23.75	24.86	23.51	23.25	23.06	23.88	25.44	23.82
5	23.43	23.17	23.18	25.53	23.65	24.68	23.66	23.25	23.00	23.98	25.44	23.83
6	23.34	23.15	23.19	25.23	23.53	24.50	24.00	23.25	22.93	24.17	25.34	23.77
7	23.30	23.15	23.24	24.96	23.49	24.33	24.68	23.26	22.87	24.24	25.22	23.70
8	23.24	23.16	23.25	24.68	23.44	24.16	24.88	23.24	22.81	24.21	25.11	23.65
9	23.18	23.15	23.26	24.41	23.43	24.01	24.81	23.23	22.68	24.12	25.01	23.64
10	23.15	23.17	23.28	24.25	23.42	23.91	24.66	23.20	22.55	24.01	24.95	23.62
11	23.23	23.21	23.31	24.20	23.41	23.83	24.51	23.18	22.43	23.95	24.89	23.57
12	23.28	23.21	23.49	24.22	23.41	23.76	24.40	23.16	22.32	24.12	24.79	23.54
13	23.27	23.19	23.48	24.44	23.43	23.78	24.30	23.12	22.26	24.24	24.68	23.51
14	23.25	23.17	23.53	24.54	23.51	23.77	24.19	23.07	22.39	24.20	24.58	23.49
15	23.27	23.13	23.74	24.55	23.62	23.73	24.15	23.00	22.36	24.08	24.50	23.47
16	23.33	23.13	23.91	24.51	23.77	23.70	24.09	22.93	22.27	23.97	24.41	23.46
17	23.44	23.14	24.19	24.45	23.95	23.68	24.03	22.87	22.40	23.91	24.40	23.44
18	23.59	23.14	24.45	24.36	24.03	23.64	23.97	22.79	22.83	23.88	24.36	23.40
19	23.64	23.10	24.65	24.32	23.98	23.58	23.92	22.71	22.83	23.87	24.23	23.37
20	23.63	23.14	24.80	24.31	23.90	23.54	23.87	22.59	22.85	23.88	24.11	23.34
21	23.61	23.25	24.81	24.40	23.84	23.51	23.82	22.48	22.83	23.90	24.12	23.30
22	23.57	23.22	24.78	24.46	23.97	23.48	23.74	22.43	22.80	23.92	24.24	23.29
23	23.53	23.23	24.73	24.45	24.19	23.47	23.68	22.54	22.79	23.96	24.32	23.27
24	23.54	23.26	24.60	24.41	24.72	23.44	23.65	22.76	22.84	24.01	24.48	23.24
25	23.50	23.29	24.41	24.37	25.07	23.40	23.60	22.81	22.84	24.11	24.50	23.19
26	23.44	23.29	24.19	24.35	25.17	23.39	23.53	22.90	22.91	24.13	24.44	23.14
27	23.41	23.28	24.03	24.35	25.07	23.42	23.49	22.99	23.04	24.16	24.37	23.08
28	23.37	23.28	23.94	24.35	25.10	23.43	23.44	23.02	23.02	24.17	24.34	23.40
29	23.33	23.27	24.00	24.35	25.03	23.43	23.38	23.03	23.00	24.21	24.32	23.46
30	23.31	23.25	24.29	24.36	---	23.41	23.33	23.07	23.06	24.29	24.28	23.47
31	23.27	---	24.94	24.35	---	23.37	---	23.10	---	24.28	24.21	---
MEAN	23.41	23.20	23.89	24.66	23.99	23.88	23.91	23.00	22.78	24.01	24.62	23.52
MAX	23.69	23.29	24.94	25.93	25.17	25.10	24.88	23.29	23.11	24.29	25.44	24.12
MIN	23.15	23.10	23.18	24.20	23.41	23.37	23.33	22.43	22.26	23.25	24.11	23.08

CAL YR 1983 MEAN 23.73 MAX 27.69 MIN 21.12
WTR YR 1984 MEAN 23.74 MAX 25.93 MIN 22.26

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303354 HILLSBOROUGH RIVER AT S-155 NEAR THONOTOSASSA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
MAY											
30...	1000	22.95	275	285	7.2	7.2	24.5	60	1.1	5.1	47
SEP											
12...	1215	--	254	258	6.2	7.6	26.0	100	.70	3.4	37

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
MAY											
30...	4.0	9.0	1.8	19	14	.40	7.5	192	.010	.57	.040
SEP											
12...	3.8	9.4	2.4	11	14	.40	8.3	189	.010	.21	.040

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
30...	.64	.400	.360	1	<100	<10	<1	<10	2	200
SEP										
12...	.66	.490	.460	1	<100	<10	<1	10	3	410

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
MAY										
30...	<1	20	<.1	2	<1	<1	360	20	10	111
SEP										
12...	8	10	.1	1	<1	<1	250	<10	14	102

HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL

LOCATION.--Lat 28°19'25", long 82°23'03", in SW¼ sec.11, T.25 S., R.19 E., Pasco County, Hydrologic Unit 03100205, at center on downstream side of box culverts on State Highway 52, 3.3 mi downstream from Bee Tree Branch, 6.8 mi west of San Antonio, 12 mi west of Dade City, and 25 mi upstream from mouth.

DRAINAGE AREA.--56.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1962 to current year.

REVISED RECORDS.--WDR FL 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Aug. 25, 1965, at present datum; Aug. 25, 1965, to Aug. 20, 1984, at same site at datum 70.00 ft lower.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--21 years (water years 1964-84), 22.4 ft^3/s, 5.43 in/yr, 16,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 717 ft^3/s June 27, 28, 1974; maximum gage height, 75.70 ft Sept. 13, 1964, present datum; no flow for many days in some years; creek dry at gage many days in 1977, 1981, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 207 ft^3/s Dec. 31, gage height, 74.14 ft, minimum, 0.24 ft^3/s June 14, gage height, 69.99 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	16	14	185	34	77	17	6.7	1.6	12	21	16
2	42	16	13	149	31	74	15	6.3	1.4	14	43	14
3	37	15	13	119	31	69	14	5.8	1.1	23	67	13
4	33	14	12	97	30	62	28	5.5	.98	24	73	11
5	29	14	12	82	30	56	45	5.3	.81	24	70	11
6	27	14	13	73	28	51	54	4.7	.67	24	57	11
7	24	14	12	65	26	47	56	4.4	.58	24	48	9.8
8	24	16	11	59	25	41	53	4.1	.51	20	41	8.9
9	31	20	11	54	23	37	51	5.9	.48	18	36	8.2
10	31	18	11	57	21	33	50	5.2	.46	21	30	7.6
11	30	16	11	61	20	30	45	4.5	.42	23	27	6.8
12	30	15	30	60	18	28	41	4.1	.37	23	25	6.1
13	29	14	37	63	30	33	35	3.7	.30	25	22	5.4
14	29	14	43	62	44	30	30	3.3	.26	25	20	4.7
15	30	13	48	60	49	28	27	2.9	.27	25	21	4.1
16	29	12	48	58	52	26	25	2.5	.30	24	20	3.6
17	31	12	48	56	51	24	23	2.2	.32	24	17	3.1
18	31	11	48	55	48	22	21	1.9	.63	22	15	4.2
19	30	11	47	57	43	20	19	1.8	.76	20	14	15
20	28	13	46	59	39	19	17	1.5	.59	19	14	12
21	27	16	44	62	36	19	16	1.4	.44	17	35	9.0
22	26	15	42	62	43	18	14	1.6	.33	16	36	7.4
23	25	15	39	61	42	18	13	4.0	3.3	15	33	6.2
24	25	14	37	59	43	17	12	3.7	4.9	13	34	5.3
25	24	15	34	56	44	16	11	3.2	3.8	13	33	4.6
26	23	14	31	54	45	15	10	2.9	6.2	14	31	4.0
27	22	14	30	50	50	20	9.5	2.8	5.8	15	28	4.0
28	20	14	29	47	67	20	8.6	2.8	4.2	14	26	11
29	19	14	78	43	75	20	7.8	2.5	7.8	13	23	9.9
30	18	14	158	40	---	19	7.1	2.2	12	14	21	9.6
31	17	---	207	37	---	18	---	2.0	---	15	18	---
TOTAL	868	433	1257	2102	1118	1007	775.0	111.5	61.58	593	999	246.5
MEAN	28.0	14.4	40.5	67.8	38.6	32.5	25.8	3.60	2.05	19.1	32.2	8.22
MAX	47	20	207	185	75	77	56	6.7	12	25	73	16
MIN	17	11	11	37	18	15	7.1	1.4	.26	12	14	3.1
CFSM	.50	.26	.72	1.21	.69	.58	.46	.06	.04	.34	.58	.15
IN.	.58	.29	.83	1.40	.74	.67	.51	.07	.04	.39	.66	.16
AC-FT	1720	859	2490	4170	2220	2000	1540	221	122	1180	1980	489

CAL YR 1983 TOTAL 17380.01 MEAN 47.6 MAX 228 MIN .37 CFSM .85 IN 11.55 AC-FT 34470
WTR YR 1984 TOTAL 9571.58 MEAN 26.2 MAX 207 MIN .26 CFSM .47 IN 6.36 AC-FT 18990

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72.59	71.65	71.51	73.97	72.34	73.06	71.68	71.03	70.40	71.31	71.83	71.61
2	72.49	71.60	71.48	73.72	72.28	73.03	71.61	70.99	70.35	71.40	72.54	71.50
3	72.39	71.56	71.46	73.46	72.26	72.95	71.54	70.94	70.30	71.91	72.93	71.40
4	72.29	71.51	71.43	73.25	72.25	72.86	72.08	70.91	70.26	71.96	73.01	71.32
5	72.19	71.55	71.41	73.08	72.22	72.77	72.56	70.89	70.21	71.99	72.97	71.27
6	72.09	71.52	71.43	72.96	72.16	72.69	72.72	70.82	70.17	71.97	72.79	71.29
7	72.01	71.51	71.43	72.86	72.09	72.61	72.75	70.79	70.14	71.98	72.65	71.22
8	72.00	71.59	71.37	72.77	72.03	72.51	72.72	70.77	70.12	71.80	72.52	71.14
9	72.24	71.83	71.34	72.70	71.98	72.42	72.68	70.94	70.10	71.72	72.39	71.09
10	72.24	71.72	71.33	72.75	71.90	72.33	72.66	70.88	70.09	71.83	72.26	71.03
11	72.21	71.65	71.32	72.81	71.83	72.25	72.58	70.82	70.08	71.92	72.13	70.96
12	72.22	71.59	72.20	72.80	71.77	72.19	72.49	70.76	70.06	71.93	72.02	70.90
13	72.19	71.55	72.38	72.84	72.12	72.33	72.37	70.71	70.03	72.02	71.91	70.83
14	72.17	71.50	72.51	72.83	72.55	72.27	72.25	70.66	70.00	72.02	71.84	70.76
15	72.20	71.46	72.59	72.81	72.65	72.20	72.15	70.61	70.01	72.02	71.88	70.69
16	72.19	71.43	72.60	72.77	72.70	72.12	72.07	70.55	70.02	71.98	71.81	70.62
17	72.24	71.38	72.61	72.74	72.68	72.03	71.98	70.50	70.03	71.96	71.66	70.56
18	72.25	71.34	72.59	72.72	72.62	71.95	71.90	70.46	70.15	71.88	71.57	70.65
19	72.20	71.31	72.57	72.76	72.54	71.88	71.82	70.42	70.20	71.78	71.50	71.57
20	72.15	71.47	72.56	72.78	72.46	71.81	71.74	70.38	70.14	71.72	71.51	71.35
21	72.10	71.63	72.53	72.83	72.40	71.80	71.63	70.35	70.09	71.65	72.17	71.15
22	72.05	71.60	72.48	72.83	72.54	71.76	71.54	70.38	70.04	71.60	72.40	71.01
23	72.01	71.56	72.43	72.82	72.51	71.75	71.47	70.75	70.49	71.52	72.33	70.91
24	72.03	71.55	72.38	72.79	72.53	71.72	71.43	70.73	70.67	71.41	72.37	70.82
25	72.00	71.56	72.31	72.74	72.56	71.66	71.37	70.66	70.54	71.43	72.34	70.75
26	71.94	71.55	72.25	72.70	72.57	71.63	71.31	70.62	70.78	71.50	72.29	70.68
27	71.89	71.53	72.20	72.65	72.66	71.86	71.25	70.61	70.77	71.52	72.18	70.67
28	71.83	71.51	72.18	72.60	72.91	71.84	71.18	70.60	70.58	71.47	72.06	71.31
29	71.79	71.56	73.00	72.53	73.03	71.82	71.12	70.55	70.83	71.39	71.96	71.24
30	71.75	71.54	73.79	72.47	---	71.79	71.06	70.51	71.30	71.44	71.84	71.19
31	71.70	---	74.12	72.41	---	71.74	---	70.46	---	71.53	71.71	---
MEAN	72.12	71.54	72.19	72.86	72.38	72.18	71.92	70.68	70.30	71.73	72.17	71.05
MAX	72.59	71.83	74.12	73.97	73.03	73.06	72.75	71.03	71.30	72.02	73.01	71.61
MIN	71.70	71.31	71.32	72.41	71.77	71.63	71.06	70.35	70.00	71.31	71.50	70.56

CAL YR 1983 MEAN 72.20 MAX 74.12 MIN 70.21
WTR YR 1984 MEAN 71.76 MAX 74.12 MIN 70.00

HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT										
18...	1020	72.25	31	150	122	7.9	7.3	23.5	120	4.7
NOV										
02...	1315	--	--	175	--	6.8	--	22.0	--	3.2
JAN										
04...	1225	73.24	98	139	--	6.8	--	11.0	--	7.1
MAR										
08...	1145	72.51	39	158	--	7.3	--	14.5	--	6.8
MAY										
07...	1245	70.81	4.5	210	--	--	--	25.0	--	4.5
15...	1815	70.58	2.7	--	--	--	--	--	--	--
21...	1300	70.36	1.4	250	--	7.0	--	24.0	--	4.8
JUN										
25...	1010	70.56	4.1	250	--	7.1	--	25.0	--	4.5
AUG										
27...	1130	72.20	29	122	--	6.9	--	24.5	--	4.9
SEP										
10...	1537	71.03	7.5	--	--	--	--	--	--	--
11...	1615	70.95	6.6	--	--	--	--	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT									
18...	14	2.8	4.8	3.7	2.8	14	.20	4.4	107

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT									
18...	--	--	--	--	--	--	90	19	36
NOV									
02...	.010	.09	.020	.93	.110	.090	--	--	--
JAN									
04...	.010	.23	.030	.80	.270	.250	--	--	--
MAR									
08...	.010	.03	.030	1.6	.270	.160	--	--	--
MAY									
07...	.010	.13	.060	.85	.100	.100	--	--	--
15...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	11	--
JUN									
25...	<.010	.08	.050	.49	.280	.220	--	--	--
AUG									
27...	.010	.05	.020	1.2	.190	.160	--	--	--
SEP									
10...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL

LOCATION.--Lat 28°11'08", long 82°24'03", in SW¼ sec.27, T.26 S., R.19 E., Pasco County, Hydrologic Unit 03100205, on right bank 30 ft downstream from bridge on State Highway 54, 0.2 mi southwest of Worthington Gardens, 4.4 mi northeast of Lutz, and 14 mi upstream from mouth.

DRAINAGE AREA.--117 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1964 to October 1971 (annual peak discharge and periodic discharge measurements only); November 1971 to May 1974 (gage heights and periodic discharge measurements only); June 1974 to current year.

REVISED RECORDS.--WRD FL 1974: 1964-65 (M), 1967 (M), 1970 (M).

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft National Vertical Datum of 1929. Prior to Nov. 16, 1972, nonrecording gage 1,000 ft upstream at datum 40.00 ft lower; Nov. 16, 1972, to Aug. 25, 1977, at site 30 ft upstream at present datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years (water years 1975-84), 55.9 ft^3/s, 6.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,210 ft^3/s June 30, 1974, gage height, 12.56 ft; no flow many days some years; minimum gage height, 2.28 ft (estimated) June 9, 10, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 301 ft^3/s Jan. 3, gage height, 8.15 ft; no flow for many days; minimum gage height, 2.35 ft June 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	27	16	247	86	146	37	7.8	.00	.00	121	83
2	98	23	15	285	82	158	33	6.1	.00	.35	126	72
3	87	19	14	300	77	160	30	4.6	.00	1.7	124	61
4	79	17	14	298	74	155	47	3.4	.00	1.3	118	53
5	70	15	13	280	70	146	77	2.4	.00	1.6	110	45
6	63	14	13	252	66	137	82	1.7	.00	2.0	100	40
7	56	13	15	222	63	128	90	1.1	.00	1.6	91	35
8	50	14	16	191	60	118	96	.70	.00	.98	87	29
9	44	16	17	164	57	109	96	.63	.00	11	85	23
10	40	16	18	149	55	101	93	.42	.00	48	85	19
11	41	15	18	148	52	93	88	.21	.00	68	83	16
12	62	13	32	143	50	86	84	.10	.00	77	79	13
13	65	12	43	145	61	86	81	.05	.00	85	75	11
14	65	11	45	147	95	84	78	.01	.00	89	70	8.7
15	71	11	49	144	111	82	76	.00	.00	89	63	6.8
16	77	11	56	138	139	79	74	.00	.00	89	59	5.2
17	78	11	81	130	156	75	70	.00	.24	84	59	3.7
18	76	10	101	123	153	71	65	.00	.39	76	54	2.6
19	71	9.2	94	128	137	66	60	.00	.07	68	49	2.0
20	65	11	89	130	121	61	56	.00	.00	62	47	1.6
21	59	25	85	130	110	56	51	.04	.00	58	64	1.2
22	54	29	82	132	136	53	45	.19	.00	51	101	.83
23	49	26	79	132	142	52	39	.32	.00	53	111	.44
24	45	23	76	129	133	50	34	.18	.00	57	131	.21
25	41	22	71	123	128	47	28	.12	.00	64	155	.09
26	39	20	66	118	124	44	23	.12	.00	76	167	.03
27	38	20	62	113	121	47	18	.04	.00	93	168	.03
28	37	19	59	107	132	47	15	.00	.00	100	153	1.9
29	35	18	81	102	135	45	12	.00	.00	95	133	4.9
30	33	17	142	97	---	42	9.9	.00	.00	105	114	6.5
31	30	---	191	91	---	39	---	.00	---	110	97	---
TOTAL	1830	507.2	1753	5038	2926	2663	1687.9	30.23	.70	1717.53	3079	546.73
MEAN	59.0	16.9	56.5	163	101	85.9	56.3	.98	.023	55.4	99.3	18.2
MAX	112	29	191	300	156	160	96	7.8	.39	110	168	83
MIN	30	9.2	13	91	50	39	9.9	.00	.00	.00	47	.03
CFSM	.50	.14	.48	1.39	.86	.73	.48	.008	.000	.47	.85	.16
IN.	.58	.16	.56	1.60	.93	.85	.54	.01	.00	.55	.98	.17

CAL YR 1983 TOTAL 39255.44 MEAN 108 MAX 498 MIN .60 CFSM .92 IN 12.48
WTR YR 1984 TOTAL 21779.29 MEAN 59.5 MAX 300 MIN .00 CFSM .51 IN 6.92

HILLSBOROUGH RIVER BASIN

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.32	4.44	4.02	7.73	5.91	6.76	4.76	3.39	2.42	2.47	6.21	5.59
2	6.11	4.31	3.97	8.03	5.82	6.89	4.66	3.27	2.41	2.55	6.29	5.37
3	5.93	4.17	3.94	8.14	5.73	6.92	4.54	3.15	2.39	2.86	6.25	5.15
4	5.76	4.06	3.92	8.12	5.66	6.86	5.01	3.05	2.39	2.80	6.18	4.94
5	5.59	3.98	3.90	7.99	5.58	6.76	5.73	2.96	2.39	2.84	6.05	4.76
6	5.43	3.92	3.91	7.77	5.50	6.65	5.82	2.87	2.38	2.89	5.89	4.61
7	5.28	3.87	4.00	7.51	5.43	6.54	5.97	2.78	2.38	2.85	5.75	4.45
8	5.12	3.93	4.04	7.23	5.36	6.41	6.08	2.71	2.37	2.76	5.67	4.26
9	4.98	4.03	4.08	6.95	5.30	6.29	6.08	2.70	2.37	3.41	5.64	4.06
10	4.86	4.03	4.10	6.79	5.24	6.16	6.03	2.65	2.37	4.82	5.63	3.90
11	4.89	3.97	4.10	6.78	5.18	6.03	5.92	2.60	2.36	5.28	5.59	3.77
12	5.41	3.89	4.60	6.72	5.13	5.91	5.83	2.55	2.36	5.48	5.52	3.64
13	5.49	3.83	4.96	6.74	5.38	5.91	5.77	2.53	2.36	5.60	5.44	3.51
14	5.47	3.78	5.01	6.77	6.05	5.87	5.70	2.50	2.36	5.71	5.33	3.39
15	5.60	3.76	5.10	6.74	6.32	5.82	5.65	2.49	2.37	5.71	5.17	3.27
16	5.73	3.79	5.27	6.66	6.68	5.76	5.60	2.47	2.37	5.71	5.10	3.16
17	5.74	3.78	5.78	6.57	6.87	5.69	5.49	2.45	2.50	5.62	5.10	3.05
18	5.71	3.73	6.15	6.48	6.83	5.61	5.38	2.44	2.64	5.46	4.98	2.96
19	5.60	3.67	6.04	6.54	6.66	5.51	5.26	2.43	2.54	5.29	4.86	2.89
20	5.47	3.78	5.95	6.57	6.45	5.40	5.15	2.43	2.48	5.17	4.80	2.85
21	5.34	4.38	5.88	6.57	6.30	5.29	5.02	2.45	2.44	5.06	5.18	2.79
22	5.22	4.51	5.82	6.59	6.64	5.21	4.87	2.59	2.42	4.92	5.91	2.73
23	5.11	4.43	5.77	6.59	6.71	5.17	4.70	2.62	2.44	4.95	6.07	2.65
24	5.00	4.33	5.70	6.55	6.60	5.12	4.53	2.59	2.45	5.06	6.36	2.59
25	4.90	4.27	5.60	6.48	6.55	5.05	4.34	2.57	2.43	5.20	6.67	2.55
26	4.84	4.20	5.49	6.41	6.49	4.96	4.15	2.56	2.41	5.45	6.82	2.52
27	4.80	4.19	5.41	6.34	6.45	5.04	3.97	2.52	2.40	5.77	6.83	2.50
28	4.76	4.17	5.35	6.26	6.60	5.05	3.80	2.50	2.41	5.90	6.65	2.87
29	4.71	4.12	5.79	6.17	6.63	5.00	3.65	2.48	2.47	5.82	6.39	3.14
30	4.64	4.06	6.71	6.09	---	4.92	3.53	2.46	2.47	5.98	6.11	3.25
31	4.56	---	7.22	6.00	---	4.85	---	2.44	---	6.05	5.84	---
MEAN	5.30	4.05	5.08	6.87	6.07	5.79	5.10	2.65	2.42	4.69	5.82	3.57
MAX	6.32	4.51	7.22	8.14	6.87	6.92	6.08	3.39	2.64	6.05	6.83	5.59
MIN	4.56	3.67	3.90	6.00	5.13	4.85	3.53	2.43	2.36	2.47	4.80	2.50

CAL YR 1983 MEAN 5.44 MAX 9.43 MIN 2.60
WTR YR 1984 MEAN 4.79 MAX 8.14 MIN 2.36

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT										
18...	0923	5.72	76	--	126	7.8	7.3	24.0	160	1.6
NOV										
02...	1100	4.32	--	145	--	6.6	--	22.0	--	2.9
JAN										
03...	1315	8.15	301	195	--	6.9	--	10.5	--	4.0
MAR										
08...	1040	6.42	122	141	--	6.9	--	15.0	--	3.4
MAY										
07...	1115	2.79	1.1	180	--	6.8	--	24.5	--	3.0
AUG										
27...	1230	6.83	168	118	--	6.8	--	24.5	--	2.0
SEP										
10...	1613	3.87	18	--	--	--	--	--	--	--
13...	1340	3.50	10	--	--	--	--	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT									
18...	19	2.1	3.9	2.5	1.6	11	.30	6.0	112

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT									
18...	--	--	--	--	--	--	90	24	44
NOV									
02...	<.010	.03	.020	1.1	.060	.060	--	--	--
JAN									
03...	.010	<.02	.040	.97	.050	.030	--	--	--
MAR									
08...	<.010	<.02	.030	.82	.070	.050	--	--	--
MAY									
07...	.010	.08	.270	1.3	.090	.090	--	--	--
AUG									
27...	.010	<.02	.010	1.2	.040	.030	--	--	--
SEP									
10...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'20", long 82°24'33", in SE¼ sec.33, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on State Highway 581, 1.2 mi downstream from Thirteenmile Run, 2.5 mi upstream from mouth, and 5.0 mi northeast of Sulphur Springs.

DRAINAGE AREA.--160 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1964 to current year. Miscellaneous discharge measurements for some periods prior to February 1964.

REVISED RECORDS.--WDR FL-80-3: 1979.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Nov. 3, 1967, to Mar. 13, 1978, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--20 years, 96.6 ft^3/s, 8.20 in/yr, 69,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,750 ft^3/s Aug. 13, 1965 (backwater from Hillsborough River); maximum gage height, 32.15 ft Aug. 13, 1965 (backwater from Hillsborough River); no flow at times most years; creek dry at gage many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed, 34.13 ft Aug. 1, 1960, discharge measured, 2,060 ft^3/s, backwater from Hillsborough River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 530 ft^3/s Jan. 5, gage height, 29.47 ft, estimated; no flow May 20, June 11-29; gage height, 24.82 ft, estimated, June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	38	30	310	204	247	65	19	3.9	.05	119	150
2	208	35	29	400	195	233	59	16	1.6	.36	130	136
3	184	32	29	470	188	223	54	12	.61	6.2	141	122
4	159	29	27	520	183	215	64	9.5	.28	16	152	108
5	140	27	26	530	177	210	89	7.2	.14	27	161	104
6	125	25	25	520	168	207	123	5.2	.07	32	172	90
7	111	24	31	460	150	200	144	3.6	.04	38	162	76
8	98	26	32	410	135	192	147	2.3	.03	52	153	64
9	90	25	39	370	123	182	145	1.4	.02	53	135	54
10	81	24	40	330	113	171	144	.82	.01	45	126	46
11	81	23	44	290	103	160	143	.46	.00	37	124	39
12	73	22	49	285	95	151	141	.26	.00	31	115	33
13	68	20	58	279	98	154	137	.16	.00	31	113	28
14	70	20	68	265	127	147	132	.11	.00	37	113	24
15	84	19	80	254	148	140	133	.06	.00	47	106	19
16	97	18	110	244	163	133	129	.03	.00	58	95	16
17	104	16	130	240	168	127	122	.02	.00	66	88	12
18	113	15	150	237	174	120	119	.02	.00	70	83	9.8
19	118	14	160	246	182	114	109	.01	.00	70	79	8.2
20	119	16	150	257	186	108	99	.00	.00	70	79	7.5
21	118	27	140	272	184	102	89	.04	.00	70	89	5.8
22	113	31	132	273	247	94	80	.54	.00	69	109	4.3
23	106	35	128	264	300	90	72	1.7	.00	65	130	3.1
24	99	37	119	255	305	88	67	1.1	.00	60	145	2.1
25	90	36	110	251	290	83	60	.91	.00	65	150	1.4
26	80	34	100	247	255	78	51	1.4	.00	64	152	.79
27	69	33	98	243	239	80	43	3.9	.00	69	159	.65
28	60	31	92	239	262	78	36	5.7	.00	73	166	9.9
29	51	31	130	229	259	77	30	5.3	.00	80	174	14
30	45	31	200	220	---	74	24	6.1	.02	96	173	14
31	41	---	250	214	---	69	---	6.7	---	112	166	---
TOTAL	3229	794	2806	9624	5421	4347	2850	111.54	6.72	1609.61	4059	1202.54
MEAN	104	26.5	90.5	310	187	140	95.0	3.60	.22	51.9	131	40.1
MAX	234	38	250	530	305	247	147	19	3.9	112	174	150
MIN	41	14	25	214	95	69	24	.00	.00	.05	79	.65
CFSM	.65	.17	.57	1.94	1.17	.88	.59	.02	.001	.32	.82	.25
IN.	.75	.18	.65	2.24	1.26	1.01	.66	.03	.00	.37	.94	.28
AC-FT	6400	1570	5570	19090	10750	8620	5650	221	13	3190	8050	2390

CAL YR 1983 TOTAL 64246.02 MEAN 176 MAX 837 MIN .00 CFSM 1.10 IN 14.94 AC-FT 127400
WTR YR 1984 TOTAL 36060.41 MEAN 98.5 MAX 530 MIN .00 CFSM .62 IN 8.38 AC-FT 71530

NOTE.--No gage height record Dec. 9 to Jan. 11, June 16-24.

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.95	27.45	27.23	29.13	28.57	28.99	27.92	26.83	25.85	25.09	28.43	28.62
2	28.86	27.37	27.21	29.29	28.52	28.95	27.84	26.66	25.58	25.22	28.47	28.54
3	28.77	27.29	27.19	29.40	28.49	28.91	27.76	26.49	25.40	26.04	28.54	28.45
4	28.67	27.21	27.14	29.46	28.46	28.88	27.91	26.31	25.29	26.68	28.60	28.34
5	28.57	27.14	27.09	29.47	28.42	28.87	28.18	26.14	25.20	27.12	28.64	28.31
6	28.47	27.08	27.08	29.46	28.38	28.86	28.45	25.98	25.12	27.29	28.69	28.19
7	28.36	27.05	27.26	29.38	28.33	28.83	28.59	25.81	25.06	27.44	28.65	28.06
8	28.26	27.09	27.30	29.31	28.28	28.80	28.61	25.67	25.02	27.73	28.64	27.91
9	28.19	27.06	27.48	29.24	28.23	28.76	28.60	25.55	24.99	27.74	28.54	27.76
10	28.11	27.03	27.50	29.17	28.18	28.72	28.60	25.46	24.96	27.60	28.48	27.62
11	28.11	27.00	27.59	29.09	28.14	28.67	28.59	25.36	24.93	27.42	28.46	27.47
12	28.03	26.95	27.68	29.00	28.09	28.63	28.58	25.28	24.91	27.26	28.39	27.32
13	27.97	26.90	27.82	28.98	28.12	28.64	28.55	25.22	24.88	27.26	28.38	27.17
14	28.00	26.85	27.97	28.94	28.32	28.61	28.51	25.17	24.86	27.42	28.38	27.01
15	28.14	26.81	28.10	28.90	28.47	28.57	28.52	25.11	24.84	27.63	28.33	26.84
16	28.25	26.75	28.36	28.85	28.56	28.52	28.49	25.05	24.84	27.82	28.23	26.66
17	28.31	26.70	28.50	28.84	28.60	28.48	28.45	25.01	24.82	27.94	28.17	26.48
18	28.38	26.64	28.63	28.82	28.65	28.43	28.42	24.98	24.88	27.99	28.13	26.33
19	28.42	26.58	28.67	28.84	28.70	28.39	28.35	24.96	24.90	28.00	28.09	26.22
20	28.43	26.68	28.63	28.86	28.73	28.34	28.27	24.93	24.90	28.00	28.09	26.17
21	28.42	27.13	28.57	28.88	28.75	28.29	28.18	24.97	24.90	27.99	28.19	26.03
22	28.38	27.27	28.51	28.87	28.98	28.23	28.10	25.38	24.92	27.98	28.50	25.88
23	28.32	27.38	28.49	28.84	29.11	28.19	28.01	25.60	24.92	27.93	28.50	25.76
24	28.27	27.42	28.42	28.81	29.12	28.17	27.95	25.51	24.92	27.85	28.60	25.65
25	28.19	27.39	28.36	28.79	29.09	28.13	27.85	25.48	24.92	27.92	28.63	25.55
26	28.10	27.35	28.28	28.77	29.01	28.08	27.71	25.55	24.91	27.91	28.63	25.45
27	27.98	27.32	28.26	28.75	28.96	28.10	27.57	25.85	24.91	27.98	28.66	25.40
28	27.85	27.28	28.21	28.73	29.03	28.08	27.40	26.02	24.87	28.03	28.70	26.31
29	27.72	27.27	28.50	28.68	29.02	28.07	27.22	25.98	24.87	28.10	28.73	26.60
30	27.61	27.26	28.83	28.64	---	28.04	27.03	26.05	24.97	28.24	28.73	26.60
31	27.52	---	29.00	28.61	---	27.99	---	26.10	---	28.38	28.70	---
MEAN	28.25	27.09	28.00	28.99	28.60	28.49	28.14	25.63	25.01	27.52	28.48	26.96
MAX	28.95	27.45	29.00	29.47	29.12	28.99	28.61	26.83	25.85	28.38	28.73	28.62
MIN	27.52	26.58	27.08	28.61	28.09	27.99	27.03	24.93	24.82	25.09	28.09	25.40

CAL YR 1983 MEAN 27.96 MAX 29.78 MIN 25.07
WTR YR 1984 MEAN 27.60 MAX 29.47 MIN 24.82

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT 18...	1107	28.39	114	125	153	7.9	7.2	24.0	140	1.4	24
NOV 03...	1045	--	--	130	--	7.4	--	23.0	--	2.7	--
MAR 07...	1010	28.83	200	135	--	6.8	--	18.5	--	2.6	--
MAY 08...	0750	25.70	2.6	195	--	6.9	--	22.5	--	2.6	--
AUG 27...	0810	28.66	158	159	--	6.7	--	23.5	--	--	--
SEP 11...	1530	27.45	38	--	--	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 18...	2.2	4.5	2.5	2.4	19	.20	6.8	130	--	--	--
NOV 03...	--	--	--	--	--	--	--	--	.020	.04	.080
MAR 07...	--	--	--	--	--	--	--	--	<.010	.02	.030
MAY 08...	--	--	--	--	--	--	--	--	.010	.11	.240
AUG 27...	--	--	--	--	--	--	--	--	.010	.02	.010
SEP 11...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT 18...	--	--	--	40	1	1	2	580	150	430	1
NOV 03...	1.0	.060	.060	--	--	--	--	--	--	--	--
MAR 07...	.74	.060	.050	--	--	--	--	--	--	--	--
MAY 08...	1.3	.090	.090	--	--	--	--	--	--	--	--
AUG 27...	1.1	.060	.030	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 18...	0	1	20	4	16	<.1	1	100	12	24	54

HILLSBOROUGH RIVER BASIN

02304000 HILLSBOROUGH RIVER AT FOWLER AVENUE NEAR TEMPLE TERRACE, FL

LOCATION.--Lat 28°03'15", long 82°21'50", in NW¼ sec.13, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, on downstream pile of right bent of Fowler Avenue bridge, 0.2 mi downstream from Cow House Creek, 2.0 mi northeast of Temple Terrace, 2.5 mi downstream from Cypress Creek, and 20 mi upstream from mouth.

DRAINAGE AREA.--630 mi^2, approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1933 to December 1939 (published as "near Harney"); January 1961 to current year (gage heights and miscellaneous discharge measurements only), incomplete. January 1961 to October 1979, published as Hillsborough River at Fowler Avenue near Tampa. Records of gage heights prior to October 1962 are available in files of the Geological Survey.
TEMPERATURE OBSERVATIONS: October 1977 to current year. See REMARKS.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Dec. 1, 1960, nonrecording gage at present site at datum 19.14 ft higher; Dec. 1, 1960, to Apr. 16, 1976, nonrecording gage at present site and datum. Since Sept. 5, 1975, supplementary nonrecording gage at site 450 ft upstream at same datum.

REMARKS.--Stage affected by withdrawal and gate operations at the Tampa Water Department dam during periods of low water. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--1933-39, 1961-84: Maximum gage height, 32.56 ft, present datum, June 20, 1934; minimum observed, 19.36 ft Feb. 27, 28, Mar. 3, 1962.
1933-39: Maximum discharge, 11,700 ft^3/s June 20, 1934; minimum observed, 46 ft^3/s Apr. 29, 1938.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 34.67 ft, present datum, Sept. 9, 1933, from floodmarks; discharge, 16,400 ft^3/s from discharge measurement near crest.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 23.91 ft Jan. 3; minimum, 21.02 ft June 17.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.20	22.66	22.61	23.24	22.56	23.03	22.37	22.68	22.12	22.18	22.93	22.39
2	22.35	22.63	22.60	23.71	22.68	23.13	22.52	22.66	22.12	22.39	23.00	22.21
3	22.50	22.62	22.60	23.89	22.76	23.29	22.64	22.63	22.11	22.60	23.22	22.05
4	22.62	22.67	22.60	23.79	22.62	23.31	22.69	22.58	22.07	22.70	23.55	22.10
5	22.62	22.65	22.59	23.56	22.55	23.21	22.35	22.56	22.02	22.81	23.67	22.26
6	22.61	22.61	22.60	23.33	22.46	23.08	22.00	22.53	21.94	22.92	23.64	22.31
7	22.54	22.62	22.66	23.18	22.38	22.91	22.33	22.50	21.86	22.99	23.56	22.26
8	22.46	22.59	22.66	22.94	22.50	22.76	22.74	22.47	21.76	23.01	23.38	22.14
9	22.46	22.59	22.66	22.75	22.57	22.75	22.89	22.46	21.65	22.99	23.20	22.02
10	22.40	22.67	22.67	22.58	22.62	22.76	22.86	22.45	21.51	22.92	23.11	21.98
11	22.50	22.72	22.69	22.44	22.64	22.71	22.97	22.41	21.39	22.88	23.04	22.20
12	22.51	22.67	22.81	22.26	22.66	22.73	22.98	22.36	21.30	22.84	22.93	22.41
13	22.51	22.64	22.67	22.36	22.72	22.87	22.90	22.31	21.22	22.86	22.87	22.55
14	22.48	22.59	22.70	22.57	22.81	22.87	22.80	22.25	21.19	22.78	22.82	22.64
15	22.54	22.56	22.77	22.67	22.83	22.75	22.78	22.18	21.16	22.56	22.76	22.71
16	22.62	22.63	22.85	22.70	22.82	22.74	22.73	22.10	21.09	22.42	22.72	22.75
17	22.67	22.67	23.02	22.67	22.91	22.71	22.66	22.00	21.16	22.49	22.78	22.70
18	22.75	22.62	23.18	22.58	22.99	22.66	22.58	21.90	21.47	22.53	22.67	22.60
19	22.74	22.57	23.27	22.54	22.86	22.62	22.67	21.80	21.51	22.58	22.42	22.52
20	22.76	22.63	23.44	22.45	22.83	22.67	22.75	21.68	21.52	22.70	22.21	22.45
21	22.79	22.64	23.43	22.42	22.82	22.71	22.77	21.55	21.50	22.68	22.29	22.48
22	22.80	22.57	23.39	22.45	22.91	22.70	22.80	21.50	21.46	22.57	22.33	22.50
23	22.79	22.57	23.34	22.48	22.38	22.65	22.84	21.58	21.46	22.55	22.29	22.48
24	22.77	22.59	23.18	22.47	23.10	22.59	22.85	21.64	21.54	22.63	22.40	22.46
25	22.66	22.63	22.92	22.46	23.37	22.55	22.80	21.69	21.56	22.72	22.56	22.42
26	22.63	22.64	22.77	22.64	23.47	22.58	22.76	21.76	21.64	22.61	22.66	22.36
27	22.66	22.65	22.81	22.79	23.43	22.63	22.76	21.84	21.73	22.68	22.57	22.40
28	22.64	22.66	22.88	22.83	23.21	22.61	22.72	21.92	21.76	22.71	22.52	22.58
29	22.67	22.65	22.87	22.82	23.01	22.49	22.66	21.99	21.82	22.76	22.52	22.32
30	22.69	22.64	22.96	22.76	---	22.35	22.67	22.09	21.94	22.84	22.50	22.14
31	22.66	---	22.81	22.66	---	22.28	---	22.12	---	22.79	22.48	---
MEAN	22.60	22.63	22.87	22.81	22.83	22.77	22.69	22.14	21.62	22.70	22.83	22.38
MAX	22.80	22.72	23.44	23.89	23.47	23.31	22.98	22.68	22.12	23.01	23.67	22.75
MIN	22.20	22.56	22.59	22.26	22.38	22.28	22.00	21.50	21.09	22.18	22.21	21.98

CAL YR 1983 MEAN 22.54 MAX 25.18 MIN 20.49
WTR YR 1984 MEAN 22.57 MAX 23.89 MIN 21.09

HILLSBOROUGH RIVER BASIN

02304000 HILLSBOROUGH RIVER AT FOWLER AVENUE NEAR TEMPLE TERRACE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT 18...	1210	--	220	246	6.6	7.7	25.5	80	2.8	38	3.6
NOV 02...	1200	--	263	--	7.4	--	22.5	--	5.9	--	--
JAN 12...	1515	--	175	--	--	--	14.5	--	5.8	--	--
FEB 29...	1515	--	165	--	7.1	--	15.0	--	4.8	--	--
APR 30...	0920	--	260	--	7.1	--	23.5	--	4.2	--	--
MAY 22...	1220	--	323	--	7.4	--	26.0	--	6.4	--	--
JUN 28...	1415	--	290	--	7.6	--	28.5	--	6.2	--	--
AUG 28...	1430	--	195	--	6.7	--	26.0	--	2.2	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 18...	7.8	2.5	11	11	.30	8.7	176	--	--	--	--
NOV 02...	--	--	--	--	--	--	--	.010	--	.020	.72
JAN 12...	--	--	--	--	--	--	--	<.010	.07	.020	.79
FEB 29...	--	--	--	--	--	--	--	.010	.18	.030	.74
APR 30...	--	--	--	--	--	--	--	.010	.22	.060	.70
MAY 22...	--	--	--	--	--	--	--	--	--	--	--
JUN 28...	--	--	--	--	--	--	--	.010	.52	.040	.50
AUG 28...	--	--	--	--	--	--	--	.010	.05	.030	.98

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)
OCT 18...	--	--	50	2	1	3	340	120	220	1	0
NOV 02...	.370	.340	--	--	--	--	--	--	--	--	--
JAN 12...	.280	.240	--	--	--	--	--	--	--	--	--
FEB 29...	.320	.310	--	--	--	--	--	--	--	--	--
APR 30...	.360	.350	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--	--	--	--	--
JUN 28...	.410	.360	--	--	--	--	--	--	--	--	--
AUG 28...	.440	.370	--	--	--	--	--	--	--	--	--

02304000 HILLSBOROUGH RIVER AT FOWLER AVENUE NEAR TEMPLE TERRACE, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN) (01054)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT										
18...	1	10	0	14	<.1	1	260	11	15	93
MAY										
22...	--	--	--	--	--	--	--	--	6.0	--

HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL

LOCATION.--Lat 28°01'25", long 82°25'40", in NW¼ sec.29, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, on left bank at upstream side of control structure for Tampa Reservoir, at 30th Street, 5.4 mi northeast of Tampa, and 10 mi upstream from mouth.

DRAINAGE AREA.--650 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (city of Tampa bench mark). Prior to Oct. 1, 1945, at site 2.1 mi upstream at datum 0.66 ft higher.

REMARKS.--Records poor. Flow regulated at station since Oct. 1, 1945, by manipulation of radial gates in spillways and dam by city of Tampa Water Department. Some augmentation at times by pumping from Sulphur Springs at Sulphur Springs into reservoir. Diversion from reservoir 1.3 mi above station by city of Tampa for water supply. Diversion at times since May 1979 from basin into Tampa Bypass Canal during high flow.

COOPERATION.--Records of gate operation and diversions furnished by city of Tampa water department.

AVERAGE DISCHARGE.--40 years (water years 1939-78), 593 ft³/s, 12.39 in/yr, 429,600 acre-ft/yr, adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft³/s Mar. 21, 1960; maximum gage height, 22.89 ft Aug. 2, 1960; no flow Nov. 30 to Dec. 2, 1945.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.6 ft Sept. 7, 1933, at former site and datum, from floodmarks, affected by backwater prior to failure of Tampa power dam, 2.1 mi below former gage. A discharge of 16,500 ft³/s was measured Sept. 9, 1933.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,350 ft³/s Jan. 4; maximum gage height, 22.74 ft Dec. 12; gates closed and flow consists of leakage (estimated as 0.50 ft³/s) for many days in May and June; minimum gage height, 20.72 ft June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	406	79	88	789	420	544	74	2.0	.50	1.0	564	569
2	302	79	73	1060	314	674	75	2.0	.50	48	764	565
3	305	29	73	1260	370	970	77	2.0	.50	114	843	384
4	208	20	73	1350	440	1150	550	1.8	.50	184	1100	282
5	256	79	73	1260	396	1300	566	1.6	.50	207	1190	294
6	244	49	73	832	368	940	444	1.6	.50	268	1190	296
7	229	65	73	742	254	801	506	1.5	.50	353	1190	296
8	195	87	72	603	204	637	789	1.5	.50	355	1180	294
9	162	31	73	454	208	446	964	1.4	.50	385	1000	292
10	131	2.4	73	450	196	448	688	1.2	.50	353	933	150
11	178	58	74	446	194	447	530	1.1	.50	340	925	2.5
12	179	79	378	404	194	310	629	1.0	.50	398	855	2.5
13	179	79	218	548	196	316	585	1.0	.50	477	682	2.5
14	178	78	295	946	196	416	577	1.0	.50	561	685	2.5
15	98	27	324	952	276	350	547	1.0	1.0	532	568	2.5
16	146	2.0	327	956	314	304	441	1.0	1.0	291	604	2.5
17	148	16	437	956	314	304	437	.75	1.0	237	680	81
18	224	61	599	954	543	301	321	.75	1.0	225	715	85
19	271	42	736	956	528	301	225	.75	1.0	239	670	133
20	241	91	923	949	470	304	227	.60	1.0	263	489	50
21	241	187	1000	946	470	306	210	.50	1.0	350	526	3.0
22	241	123	983	946	520	315	160	.50	1.0	348	634	3.0
23	242	98	985	946	524	335	160	.50	1.0	297	550	3.0
24	374	94	1080	946	656	153	160	.50	1.0	378	536	3.0
25	290	95	925	710	1010	153	160	.50	1.0	491	548	3.0
26	192	95	650	602	1290	153	75	.50	1.0	398	606	3.0
27	169	94	385	610	1260	158	75	.50	1.0	362	684	87
28	152	94	509	614	802	201	75	.50	1.0	363	568	245
29	100	94	625	614	606	229	61	.50	1.0	382	570	277
30	125	94	957	614	---	228	2.0	.50	1.0	567	570	205
31	83	---	998	610	---	180	---	.50	---	455	495	---
TOTAL	6489	2121.4	14152	25025	13533	13674	10390.0	31.05	23.00	10222.0	23114	4618.0
MEAN	209	70.7	457	807	467	441	346	1.00	.77	330	746	154
MAX	406	187	1080	1350	1290	1300	964	2.0	1.0	567	1190	569
MIN	83	2.0	72	404	194	153	2.0	.50	.50	1.0	489	2.5
AC-FT	12870	4210	28070	49640	26840	27120	20610	62	46	20280	45850	9160

CAL YR 1983 TOTAL 173320.00 MEAN 475 MAX 2100 MIN .90 AC-FT 343800
WTR YR 1984 TOTAL 123392.45 MEAN 337 MAX 1350 MIN .50 AC-FT 244700

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.43	22.48	22.43	21.24	21.97	21.14	22.05	22.42	21.83	21.87	21.84	21.28
2	21.86	22.46	22.43	21.47	22.27	21.36	22.27	22.42	21.83	22.11	21.63	21.12
3	22.08	22.46	22.42	21.67	22.33	21.82	22.41	22.37	21.81	22.21	21.54	20.98
4	22.29	22.53	22.42	21.54	22.10	22.08	22.29	22.32	21.79	22.23	21.53	21.18
5	22.29	22.48	22.42	21.29	22.08	22.07	21.63	22.30	21.73	22.31	21.58	21.43
6	22.30	22.46	22.42	21.33	21.99	22.01	20.96	22.28	21.65	22.32	21.62	21.63
7	22.25	22.47	22.48	21.49	21.96	21.86	21.01	22.24	21.56	22.32	21.62	21.65
8	22.17	22.42	22.48	21.36	22.17	21.83	21.09	22.20	21.45	22.31	21.51	21.55
9	22.[illegible]	22.43	22.48	21.39	22.28	21.98	21.21	22.19	21.34	22.31	21.33	21.40
10	22.16	22.53	22.49	21.28	22.34	22.11	21.29	22.20	21.20	22.25	21.31	21.35
11	22.24	22.57	22.51	21.06	22.37	22.10	21.85	22.15	21.09	22.30	21.27	21.69
12	22.26	22.51	22.51	20.78	22.40	22.24	21.99	22.09	21.01	22.12	21.22	22.03
13	22.26	22.48	22.36	20.90	22.46	22.43	21.95	22.04	20.92	22.07	21.36	22.23
14	22.24	22.45	22.39	21.10	22.54	22.41	21.87	21.99	20.82	21.85	21.41	22.36
15	22.34	22.41	22.40	21.25	22.53	22.25	21.88	21.92	20.80	21.50	21.47	22.47
16	22.41	22.49	22.45	21.33	22.44	22.28	21.86	21.83	20.73	21.46	21.49	22.53
17	22.44	22.54	22.55	21.37	22.47	22.25	21.82	21.72	20.72	21.71	21.58	22.50
18	22.48	22.49	22.56	21.30	22.48	22.19	21.77	21.61	20.97	21.80	21.33	22.36
19	22.42	22.44	22.50	21.25	22.23	22.18	22.01	21.50	21.08	21.91	21.08	22.28
20	22.45	22.50	22.53	21.11	22.26	22.30	22.17	21.38	21.11	22.09	20.99	22.19
21	22.50	22.43	22.42	21.03	22.27	22.35	22.24	21.26	21.10	21.97	21.17	22.27
22	22.51	22.37	22.36	21.02	22.26	22.36	22.33	21.23	21.05	21.80	21.04	22.29
23	22.52	22.38	22.34	21.04	22.05	22.27	22.41	21.30	21.06	21.77	20.95	22.29
24	22.45	22.38	22.11	21.04	22.10	22.23	22.46	21.32	21.16	21.87	21.02	22.27
25	22.34	22.43	21.86	21.17	22.04	22.24	22.42	21.35	21.19	21.85	21.19	22.24
26	22.34	22.46	21.90	21.70	21.99	22.24	22.40	21.43	21.25	21.65	21.39	22.18
27	22.41	22.47	22.20	21.98	21.85	22.30	22.44	21.52	21.35	21.77	21.22	22.15
28	22.41	22.46	22.36	22.11	21.26	22.24	22.40	21.63	21.39	21.83	21.24	22.27
29	22.47	22.47	22.27	22.13	21.03	22.04	22.35	21.70	21.47	21.90	21.29	21.95
30	22.49	22.46	22.12	22.07	---	21.90	22.40	21.78	21.61	21.87	21.29	21.72
31	22.48	---	21.44	21.97	---	21.84	---	21.83	---	21.74	21.32	---
MEAN	22.31	22.46	22.34	21.38	22.16	22.09	21.97	21.86	21.27	21.97	21.35	21.93
MAX	22.52	22.57	22.56	22.13	22.54	22.43	22.46	22.42	21.83	22.32	21.84	22.53
MIN	21.43	22.37	21.44	20.78	21.03	21.14	20.96	21.23	20.72	21.46	20.95	20.98

CAL YR 1983 MEAN 21.51 MAX 22.60 MIN 19.14
WTR YR 1984 MEAN 21.92 MAX 22.57 MIN 20.72

HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1927, 1952, 1957-58, 1966, 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
18...	1400	22.50	195	7.3	27.0	3.6	--	17
NOV								
02...	1030	22.47	230	7.5	23.0	4.4	--	--
JAN								
10...	0930	21.07	178	7.2	13.0	7.4	--	--
MAR								
05...	1445	22.03	181	7.5	15.0	7.2	--	--
MAY								
03...	1130	22.37	235	7.3	25.5	5.7	--	--
22...	1310	21.21	269	7.4	28.0	6.7	1.5	14
JUN								
29...	1535	--	320	--	29.0	4.1	--	--
AUG								
31...	1400	21.31	1980	7.0	27.0	6.5	--	--

02305780 CURIOSITY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°04'07", long 82°27'24", in NE¼ sec.12, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on right bank 110 ft downstream from Fletcher Avenue, 700 ft west of Interstate 75, 1.3 mi upstream from sinkhole complex, and 2.5 mi north of Sulphur Springs.

DRAINAGE AREA.--1.37 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46 ft^3/s Sept. 7, 1982, gage height, 39.93 ft; no flow for many days each year; minimum daily gage height, 33.70 ft (estimated) May 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s Apr. 4, gage height, 38.31 ft; no flow for many days; minimum gage height, 35.07 ft June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.49	.44	1.9	.67	1.8	.38	.12	.02	.41	2.6	.22
2	2.2	.44	.38	1.7	.63	1.6	.35	.10	.02	1.4	2.8	.21
3	1.3	.41	.36	1.6	.63	1.4	.33	.09	.02	.68	1.4	.19
4	1.2	.38	.38	1.4	.59	1.3	6.6	.09	.01	.29	.94	.47
5	1.1	.41	.38	1.4	.53	1.3	3.1	.08	.01	.38	.75	2.5
6	1.0	.38	.79	1.3	.49	1.2	1.8	.07	.01	.34	1.6	1.0
7	.93	.63	.85	1.2	.46	1.2	1.3	.06	.00	.25	1.1	.46
8	1.9	.56	.56	1.1	.44	1.1	1.2	.05	.00	.25	.90	.31
9	2.0	.82	.46	1.1	.41	.85	1.2	.09	.00	.20	.88	.26
10	2.6	.76	.38	3.3	.41	.70	1.2	.05	.00	.19	.82	.22
11	4.2	.53	.46	2.8	.38	.63	1.1	.04	.02	1.4	.85	.19
12	1.2	.44	2.8	2.2	.36	.82	.97	.04	.26	1.1	.57	.17
13	1.9	.41	1.2	2.2	2.2	1.2	.85	.03	.06	1.4	.46	.13
14	1.9	.36	1.0	1.8	2.0	.86	.86	.02	.06	.72	.49	.10
15	2.4	.36	1.1	1.7	1.3	.74	1.1	.02	.05	.97	.63	.08
16	2.6	.36	1.2	1.6	.89	.64	.85	.02	.02	1.2	.47	.06
17	2.5	.33	2.5	1.4	.70	.55	.64	.02	.04	.70	1.1	.04
18	2.1	.31	2.2	1.3	.59	.49	.49	.02	.05	.49	.50	.05
19	1.8	.29	1.6	2.4	.53	.46	.40	.01	.03	1.2	.37	.07
20	1.6	1.8	1.5	1.6	.59	.57	.35	.01	.02	.96	.54	.05
21	1.5	1.7	1.2	1.5	1.3	.56	.33	.17	.02	.58	3.2	.03
22	1.1	1.2	1.1	1.3	5.7	.40	.30	.26	.01	.40	1.8	.02
23	.93	.76	1.0	1.2	3.0	.86	.31	1.4	.02	.67	.99	.02
24	1.0	.73	.89	1.1	2.1	.70	.32	.30	.02	1.6	.90	.02
25	.89	.63	.82	1.0	1.7	.52	.26	.13	.02	1.2	.59	.01
26	.79	.53	.73	.93	1.4	.85	.22	.10	.24	.88	.44	.01
27	.70	.49	.85	.89	3.0	1.1	.20	.10	.10	.86	.41	.59
28	.63	.49	1.2	.86	3.2	.77	.16	.07	.04	.52	.35	6.7
29	.59	.49	4.3	.82	2.2	.64	.14	.05	.21	1.1	.32	1.2
30	.79	.46	3.6	.76	---	.53	.13	.04	.70	3.7	.26	.67
31	.56	---	2.4	.70	---	.44	---	.03	---	2.0	.24	---
TOTAL	47.61	17.95	38.63	46.06	38.40	26.78	27.44	3.68	2.08	28.04	29.27	16.05
MEAN	1.54	.60	1.25	1.49	1.32	.86	.91	.12	.069	.90	.94	.54
MAX	4.2	1.8	4.3	3.3	5.7	1.8	6.6	1.4	.70	3.7	3.2	6.7
MIN	.56	.29	.36	.70	.36	.40	.13	.01	.00	.19	.24	.01
AC-FT	94	36	77	91	76	53	54	7.3	4.1	56	58	32

CAL YR 1983 TOTAL 799.14 MEAN 2.19 MAX 17 MIN .00 AC-FT 1590
WTR YR 1984 TOTAL 321.99 MEAN .88 MAX 6.7 MIN .00 AC-FT 639

02305780 CURIOSITY CREEK NEAR SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
DEC 19...	1200	36.51	1.6	184	197	5.8	6.8	18.5	1.2	7.4
MAR 19...	1235	36.24	.50	217	209	5.9	6.9	21.0	.50	6.9
SEP 06...	1400	36.40	1.0	170	178	6.2	7.0	25.0	1.2	5.2

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
DEC 19...	.8	870	K220	310	26	2.1	8.6	2.9	18	14
MAR 19...	1.4	K600	--	240	26	2.5	9.9	3.0	17	17
SEP 06...	1.3	2900	240	370	24	1.8	5.3	4.6	14	12

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
DEC 19...	2.2	123	<.010	.13	.14	.040	.75	.100	<10
MAR 19...	1.2	133	.010	.04	<.10	.070	.68	.170	<10
SEP 06...	2.6	120	.010	.20	.42	.170	.71	.400	<10

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	2, 4-DP TOTAL (UG/L) (82183)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
DEC 19...	120	100	20	7.1	.14	<.01	<.01	<.01	60
MAR 19...	210	<100	30	8.1	.03	<.01	.01	<.01	61
SEP 06...	250	<100	10	9.2	.03	<.01	<.01	<.01	55

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

PHYTOPLANKTON ANALYSES

02305780 - CURIOSITY CREEK NEAR SULPHUR SPRINGS, FL

DATE	TIME	CHLORO PHYCEAE (96001)	DICTYO SPHAE RIUM (96209)	OOCYS TIS (96218)	SELENA STRUM (96225)	TETRAE DRON (96226)	DIMOR PHOCOC CUS (96231)	CRUCI GENIA (96240)	SCENE DESMUS (96243)	TETRA STRUM (96245)	CLOSTE RIUM (96312)
DEC 19...	1200	5000	2000	1200	--	310	--	--	1200	100	26
MAR 19...	1235	--	--	--	--	--	--	--	390	--	--
SEP 06...	1400	2000	--	--	260	65	780	130	390	--	--

DATE	EUGLENA (96387)	PHACUS (96390)	CRYPTO PHYCEAE (96423)	CRYPTO MONAS (96430)	FRAGILA RIA (96764)	NITZ SCHIA (97952)	DACTYLO COCCOP SIS (98067)	A. CYANEA (98085)	LYNGBYA (98131)	OSCIL LATORIA (98136)
DEC 19...	--	--	--	--	--	--	830	51000	1000	1600
MAR 19...	130	--	260	--	--	49	65	330	130	--
SEP 06...	16	16	260	65	65	65	65	3500	65	260

HILLSBOROUGH RIVER BASIN

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'07", in NE¼ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, at swimming pool, 100 ft west of U. S. Highway 41 in Sulphur Springs, and 500 ft upstream from mouth of outlet channel at Hillsborough River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1917, 1929, 1930 (one discharge measurement in each year); February 1931 to June 1934 (monthly discharge measurements published as "at Tampa"); 1935, 1945, 1946 (miscellaneous discharge measurements); May 1956 to June 1959 (periodic discharge measurements only); July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 15, 1959, nonrecording gage at same site and datum.

REMARKS.--Records fair. Discharge measurements made in spring run about 300 ft downstream from gage. Flow regulated by operating stoplogs in control at swimming pool outlet at head of springs. Some diversions at times by pumping from the spring pool into Hillsborough River above the dam by the city of Tampa Water Department (see station no. 02304500 Hillsborough River near Tampa).

AVERAGE DISCHARGE.--25 years, 41.6 ft^3/s, 26.9 mg/d, 30,139 acre-ft/yr. The figure published in the 1983 report was in error; the correct figure is 24 years, 41.5 ft^3/s, 26.8 mg/d, 30,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--1959-83: Maximum daily discharge, not determined (probably occurred March 1960); maximum measured, 111 ft^3/s Aug. 21, 1959; maximum gage height, 11.11 ft Mar. 21, 1960 (pool flooded by Hillsborough River); minimum daily discharge, 0.10 ft^3/s May 26, 28, 29, 30, 31, 1981 (affected by pumpage); minimum gage height, 0.88 ft Mar. 30, 1984.

Maximum discharge measured, 163 ft^3/s Aug. 3, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 63 ft^3/s Aug. 3, Sept. 29; maximum gage height, 7.68 ft May 6; minimum daily discharge, 25 ft^3/s Sept. 5; minimum gage height, 0.88 ft Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	44	38	41	43	43	62	45	44	45	47	57
2	45	43	38	41	43	43	55	45	45	45	55	56
3	46	43	39	41	43	43	43	45	45	45	63	57
4	46	43	39	42	43	43	43	45	45	45	61	37
5	46	43	39	42	43	43	43	45	45	45	58	25
6	45	43	40	42	43	43	42	45	45	45	62	28
7	45	43	40	42	43	43	43	44	45	44	61	29
8	44	44	40	42	43	43	43	44	45	44	59	30
9	44	43	40	42	43	43	44	45	45	44	58	31
10	44	43	40	43	43	43	44	44	45	44	58	32
11	45	43	40	42	43	43	44	45	44	44	58	32
12	44	43	42	42	43	43	44	45	45	46	58	32
13	44	43	41	42	43	43	44	44	44	46	58	31
14	44	43	41	42	44	43	44	44	46	45	57	31
15	45	43	41	42	43	43	47	44	47	46	57	31
16	45	43	40	43	43	43	46	44	46	46	57	32
17	45	42	41	43	43	43	46	43	47	46	58	32
18	45	43	41	42	43	43	45	44	47	46	57	32
19	44	43	41	43	43	43	45	44	48	45	57	32
20	44	43	41	43	43	43	44	44	45	47	56	31
21	44	44	41	42	43	43	45	43	43	47	59	31
22	44	40	40	42	44	43	45	44	43	47	58	31
23	44	33	40	43	43	43	45	45	43	46	57	31
24	44	33	41	43	43	43	44	45	44	47	57	31
25	44	33	40	43	43	43	45	45	43	47	57	31
26	44	33	40	43	43	43	45	47	43	47	56	30
27	44	33	41	43	44	44	45	45	43	47	56	30
28	44	33	41	43	44	54	46	45	43	47	56	45
29	44	33	42	43	43	62	45	45	43	47	57	63
30	44	36	43	43	---	62	45	45	44	48	56	59
31	44	---	41	43	---	62	---	45	---	48	57	---
TOTAL	1380	1212	1252	1313	1251	1402	1361	1382	1340	1421	1781	1080
MEAN	44.5	40.4	40.4	42.4	43.1	45.2	45.4	44.6	44.7	45.8	57.5	36.0
MAX	46	44	43	43	44	62	62	47	48	48	63	63
MIN	44	33	38	41	43	43	42	43	43	44	47	25
AC-FT	2740	2400	2480	2600	2480	2780	2700	2740	2660	2820	3530	2140

CAL YR 1983 TOTAL 16077 MEAN 44.0 MAX 62 MIN 33 AC-FT 31890
WTR YR 1984 TOTAL 16175 MEAN 44.2 MAX 63 MIN 25 AC-FT 32080

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1924, 1945, 1947, 1957, 1964, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
18...	1330	7.42	1900	7.2	25.0	.4	.5	3.6
NOV								
03...	0905	7.39	1740	6.7	24.0	.1	--	--
FEB								
03...	0935	7.38	1690	7.2	24.0	.5	--	--
MAR								
05...	1200	7.39	1650	7.0	23.5	.7	--	--
MAY								
11...	0720	7.60	1400	5.4	22.5	.6	--	--
21...	1030	6.58	1440	6.7	24.0	.5	.9	18
JUN								
27...	0745	7.58	1340	6.5	25.0	.0	--	--
AUG								
29...	0810	2.47	3650	6.8	24.5	1.2	--	--

02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'35", long 82°30'42", in SW¼ sec.16, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, 25 ft upstream from culverts on private road, 160 ft upstream from Gunn Highway, 1.7 mi downstream from Lake Ellen, 3.5 mi west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--7.43 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 26.00 ft National Geodetic Vertical Datum of 1929. Prior to May 3, 1974, at site 160 ft downstream. Prior to Oct. 15, 1965, at datum 4.68 ft higher; Oct. 15, 1965, to May 15, 1967, at datum 3.00 ft higher; May 15, 1967, to May 3, 1974, at present datum.

REMARKS.--Records good. Flow affected by regulation of control structures above station. Since January 1970, flow has been diverted from basin (below station) through Channel G to Rocky Creek.

AVERAGE DISCHARGE.--33 years, 6.56 ft^3/s, 4,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 438 ft^3/s Mar. 17, 1960; maximum gage height, 9.57 ft May 18, 1979; no flow for many days in some years; creek dry at gage in June 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft^3/s Sept. 5, gage height, 6.10 ft, no peak above base of 60 ft^3/s; minimum discharge, 0.24 ft^3/s Sept. 26, gage height, 3.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.2	1.3	19	2.4	20	3.1	7.3	1.6	4.3	15	1.1
2	2.4	.99	1.3	19	2.4	18	3.4	7.0	1.8	3.6	13	.81
3	2.9	.84	1.2	17	2.2	17	3.8	6.4	1.5	4.7	8.0	.83
4	2.2	.95	1.2	16	2.1	16	16	5.8	1.6	3.5	5.8	2.6
5	1.9	.95	1.7	12	2.0	15	16	5.4	1.5	3.0	4.3	24
6	2.4	.91	2.0	9.9	1.8	14	13	5.0	1.7	3.8	3.4	11
7	2.2	.96	2.5	12	2.4	14	10	5.2	1.8	4.2	13	7.2
8	2.2	1.3	2.0	14	1.4	7.5	7.5	5.2	1.4	10	14	4.8
9	2.3	1.6	1.6	12	1.1	2.0	6.7	5.1	1.4	15	7.3	3.5
10	3.3	1.8	1.4	14	1.2	2.4	14	4.7	1.4	13	6.1	2.5
11	12	1.5	1.6	15	1.5	1.6	14	4.8	3.0	11	5.2	2.2
12	11	1.3	9.2	11	1.4	2.1	12	4.8	6.1	13	4.0	1.6
13	7.9	1.3	5.6	10	4.9	3.0	12	4.8	3.4	11	3.1	1.4
14	7.0	1.2	5.1	8.2	4.5	2.1	13	4.7	2.4	9.7	4.6	1.2
15	7.1	1.1	5.4	7.1	3.5	2.2	14	4.5	2.2	18	12	1.1
16	6.2	1.1	4.3	6.3	4.0	2.2	14	4.6	2.0	23	9.4	1.0
17	6.0	1.0	4.8	5.7	3.1	2.6	13	4.7	2.1	15	7.2	.78
18	5.2	1.3	5.5	5.2	3.1	2.9	12	4.6	5.4	12	5.4	.83
19	4.4	1.2	5.0	16	2.2	2.9	12	4.2	4.9	8.2	4.0	.86
20	3.5	1.1	5.6	19	2.4	2.5	11	3.8	3.7	5.3	4.0	.67
21	3.3	5.0	4.3	18	4.3	4.9	11	1.9	2.9	3.8	21	.67
22	2.7	6.0	3.6	17	22	8.7	11	1.7	2.3	3.1	20	.52
23	2.7	3.5	3.8	17	21	8.6	10	6.3	2.6	4.1	13	.57
24	3.5	2.0	3.3	17	19	6.1	11	3.9	2.6	8.0	7.5	.49
25	2.8	1.7	2.6	17	18	4.8	9.9	2.6	2.5	8.1	6.0	.54
26	1.9	1.6	2.3	16	18	4.6	11	2.7	3.3	5.6	5.4	.44
27	2.1	1.4	2.4	11	19	8.7	11	2.9	3.9	6.7	4.0	.87
28	1.6	1.3	2.3	2.9	26	6.8	9.3	2.7	3.0	5.6	3.0	19
29	.95	1.4	9.1	8.1	23	5.4	8.1	3.2	3.1	4.1	2.2	11
30	1.1	1.4	14	10	---	3.8	7.8	2.3	3.6	12	1.7	7.9
31	1.4	---	15	3.1	---	3.3	---	1.8	---	11	1.0	---
TOTAL	118.75	48.90	131.0	385.5	219.9	215.7	320.6	134.6	80.7	263.4	233.6	111.98
MEAN	3.83	1.63	4.23	12.4	7.58	6.96	10.7	4.34	2.69	8.50	7.54	3.73
MAX	12	6.0	15	19	26	20	16	7.3	6.1	23	21	24
MIN	.95	.84	1.2	2.9	1.1	1.6	3.1	1.7	1.4	3.0	1.0	.44
AC-FT	236	97	260	765	436	428	636	267	160	522	463	222

CAL YR 1983 TOTAL 4547.99 MEAN 12.5 MAX 52 MIN .84 AC-FT 9020
WTR YR 1984 TOTAL 2264.63 MEAN 6.19 MAX 26 MIN .44 AC-FT 4490

TAMPA BAY AND COASTAL AREAS

02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-66, 1969 to current.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
03...	1320	3.87	3.5	310	5.9	26.0	3.9	--	--
19...	0740	3.97	--	--	6.6	25.0	4.3	2.7	10
DEC									
05...	1245	3.77	1.5	355	7.3	24.0	2.0	--	--
FEB									
06...	1015	3.71	1.8	380	7.1	14.0	4.8	--	--
MAR									
26...	1405	3.91	2.6	365	7.1	23.0	5.8	--	--
MAY									
14...	0915	3.81	4.8	--	--	--	--	--	--
21...	0945	3.66	2.2	477	6.8	25.5	2.0	3.7	10
JUN									
07...	1423	3.67	2.1	--	7.3	29.0	5.8	--	--
JUL									
31...	0923	4.24	11	211	7.4	27.0	4.0	--	--
SEP									
10...	0900	3.86	2.6	--	--	--	--	--	--

02306910 BRUSHY CREEK NEAR TAMPA, FL

LOCATION.--Lat 28°04'10", long 82°31'51", in SW¼ sec.5, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on upstream side of bridge on West Village Drive, 1.0 mi south of Erlich Road, 2.4 mi upstream from mouth, and 6.0 mi northwest of Tampa.

DRAINAGE AREA.--7.16 mi^2.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.64 ft National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441 ft^3/s June 18, 1982, gage height, 36.19 ft; minimum discharge, 0.24 ft^3/s May 17, 18, 1984, gage height, 32.39 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 208 ft^3/s Apr. 4, gage height, 35.32 ft; minimum discharge, 0.24 ft^3/s May 17, 18, gage height, 32.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	3.0	5.8	21	8.7	24	4.0	4.5	3.7	8.3	11	2.6
2	8.0	2.7	5.6	18	8.5	20	3.5	4.0	3.0	5.3	8.9	2.2
3	7.6	2.5	5.4	16	8.3	19	3.0	3.5	3.2	5.9	7.2	1.7
4	7.0	2.3	5.3	14	7.9	16	95	3.0	2.6	4.8	6.3	1.5
5	5.9	2.3	4.8	13	7.3	15	47	2.5	2.3	4.2	6.7	2.0
6	4.8	2.4	8.5	13	6.2	14	25	2.3	1.6	8.0	6.2	3.2
7	4.1	3.1	13	13	6.5	13	19	1.7	1.3	8.9	7.7	3.1
8	4.5	4.0	7.5	13	6.9	12	17	1.5	1.0	9.0	11	2.8
9	5.4	4.3	6.2	12	6.1	10	16	1.6	.70	11	6.8	2.1
10	5.4	3.8	5.4	42	5.3	9.7	14	1.1	.54	8.1	6.0	2.1
11	12	3.8	5.0	44	4.8	8.9	13	.91	.71	6.0	7.2	2.5
12	16	3.3	32	25	4.3	8.3	12	.96	4.7	8.5	7.3	1.9
13	11	3.1	16	24	55	15	10	.86	1.8	5.7	6.6	1.6
14	8.9	3.1	11	21	39	13	8.7	.83	1.2	5.0	19	2.0
15	13	2.9	11	18	20	11	10	.63	1.6	12	49	1.9
16	18	3.5	9.0	17	15	9.2	11	.41	5.0	17	14	1.3
17	12	3.1	33	16	13	7.9	9.6	.29	6.0	9.3	11	1.3
18	9.6	2.9	42	15	11	7.0	8.5	.31	6.6	6.5	9.9	1.5
19	8.2	2.9	22	28	9.7	6.3	7.0	.40	4.5	5.1	8.1	1.4
20	7.2	15	19	21	9.1	5.6	6.1	.51	2.9	5.0	11	2.1
21	6.4	18	16	20	13	5.3	5.7	.60	2.0	4.9	43	2.0
22	5.7	10	14	16	74	4.5	5.2	4.6	1.6	4.6	39	1.9
23	5.3	8.3	12	15	39	5.2	5.5	16	1.9	5.1	15	2.0
24	6.5	7.5	11	15	26	6.0	5.8	7.0	2.5	8.0	10	1.7
25	5.8	7.3	9.2	15	22	5.2	4.9	9.5	2.4	8.3	8.0	1.6
26	5.0	6.2	7.9	14	19	11	5.1	16	12	7.1	7.3	1.3
27	4.4	5.8	7.4	13	31	9.6	6.5	9.1	13	8.4	6.6	1.5
28	3.8	6.0	6.8	13	46	8.1	5.7	8.6	7.3	6.5	5.9	45
29	3.5	6.6	56	11	29	6.4	4.4	7.3	8.7	5.6	5.3	15
30	3.2	6.1	68	9.4	---	5.1	4.7	8.5	8.0	12	4.3	8.0
31	3.2	---	29	9.0	---	4.4	---	6.0	---	14	3.3	---
TOTAL	230.2	155.8	504.8	554.4	551.6	315.7	392.9	125.01	114.35	238.1	368.6	120.9
MEAN	7.43	5.19	16.3	17.9	19.0	10.2	13.1	4.03	3.81	7.68	11.9	4.03
MAX	18	18	68	44	74	24	95	16	13	17	49	45
MIN	3.2	2.3	4.8	9.0	4.3	4.4	3.0	.29	.54	4.2	3.3	1.3
AC-FT	457	309	1000	1100	1090	626	779	248	227	472	731	240

CAL YR 1983 TOTAL 7063.97 MEAN 19.4 MAX 127 MIN .87 AC-FT 14010
WTR YR 1984 TOTAL 3672.36 MEAN 10.0 MAX 95 MIN .29 AC-FT 7280

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'12", long 82°34'34", in NW¼ sec.23, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 75 ft upstream from concrete control, 2.8 mi downstream from Brushy Creek, 5.8 mi upstream from mouth, and 7.4 mi west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--35 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1953 to current year.

REVISED RECORDS.--WSP 1905: 1953-65(P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Mar. 23, 1971, at site 1,500 ft upstream at datum 0.15 ft lower.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--31 years, 36.9 ft³/s, 14.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s July 29, 1960, gage height, 17.03 ft (former site and datum); no flow Apr. 7 to May 5, 1967; minimum gage height, 1.19 ft Nov. 3, 1963 (former site and datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 296 ft³/s Apr. 5, gage height, 6.74 ft, no peak above base of 350 ft³/s; minimum, 4.7 ft³/s May 19, 20, 21, gage height, 5.34 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	21	15	138	38	99	24	22	24	49	69	13
2	26	21	14	123	36	87	22	21	18	43	44	12
3	24	21	14	109	35	79	21	20	15	40	29	13
4	23	22	14	92	34	71	131	18	15	41	22	13
5	23	23	15	84	33	64	228	17	14	46	16	19
6	23	22	18	78	30	58	104	15	13	96	17	26
7	23	25	32	73	27	54	77	14	13	110	19	27
8	24	33	32	67	27	49	64	13	12	66	25	24
9	25	36	27	61	26	43	56	11	11	79	24	20
10	29	34	24	86	25	41	53	9.0	9.7	110	18	20
11	46	33	22	159	24	37	48	7.2	11	64	18	20
12	52	32	76	118	22	36	43	6.1	16	88	23	22
13	56	22	66	98	44	45	43	5.5	17	58	24	23
14	51	14	44	95	139	45	47	5.8	14	64	26	22
15	54	11	40	86	77	40	50	5.9	21	94	50	23
16	50	13	34	78	56	37	51	5.2	14	117	54	24
17	51	12	60	73	47	33	45	5.5	23	75	45	24
18	43	10	130	68	40	30	42	5.3	56	51	37	28
19	38	9.6	88	84	36	28	43	5.0	34	41	38	33
20	34	18	70	92	34	27	38	4.7	23	35	43	33
21	33	45	63	83	39	26	35	5.0	18	32	102	32
22	33	34	57	76	173	24	31	8.2	15	32	154	31
23	30	23	53	68	161	25	30	36	16	37	85	30
24	27	19	46	64	105	27	30	34	30	41	48	30
25	30	17	38	62	87	27	26	26	27	35	27	29
26	28	15	32	60	76	27	24	66	36	28	22	28
27	24	13	29	57	88	39	31	51	97	17	18	29
28	22	14	27	54	151	38	27	52	55	13	17	84
29	21	14	77	50	120	33	25	38	43	11	17	75
30	20	15	260	45	---	29	24	34	49	58	16	37
31	21	---	180	41	---	26	---	33	---	107	13	---
TOTAL	1013	641.6	1697	2522	1830	1324	1513	599.4	759.7	1778	1160	844
MEAN	32.7	21.4	54.7	81.4	63.1	42.7	50.4	19.3	25.3	57.4	37.4	28.1
MAX	56	45	260	159	173	99	228	66	97	117	154	84
MIN	20	9.6	14	41	22	24	21	4.7	9.7	11	13	12
CFSM	.93	.61	1.56	2.33	1.80	1.22	1.44	.55	.72	1.64	1.07	.80
IN.	1.08	.68	1.80	2.68	1.94	1.41	1.61	.64	.81	1.89	1.23	.90

CAL YR 1983 TOTAL 22993.8 MEAN 63.0 MAX 399 MIN 2.7 CFSM 1.80 IN 24.44
WTR YR 1984 TOTAL 15681.7 MEAN 42.8 MAX 260 MIN 4.7 CFSM 1.22 IN 16.67

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-58, 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
OCT											
03...	1100	6.08	25	245	--	6.5	--	25.0	--	4.3	1.6
18...	0745	6.23	44	--	199	6.5	7.3	25.0	80	4.3	--
DEC											
05...	1015	5.71	19	330	--	6.7	--	22.0	--	3.9	2.2
FEB											
06...	0845	5.58	28	190	--	7.0	--	14.0	--	6.4	1.8
MAR											
26...	1113	5.68	26	205	--	6.7	--	21.0	--	6.7	1.4
MAY											
21...	0237	5.35	5.2	360	--	6.8	--	24.0	--	2.2	--
31...	1007	5.65	34	305	--	6.5	--	24.0	--	2.6	.8
JUL											
31...	1300	6.26	100	190	--	6.4	--	26.0	--	4.8	1.8
SEP											
10...	1200	5.80	20	--	--	--	--	--	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
03...	--	--	--	--	--	--	--	--	--	.040	.60
18...	21	2.3	14	3.5	13	22	.10	5.2	131	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	.030	.67
FEB											
06...	--	--	--	--	--	--	--	--	--	.020	.40
MAR											
26...	--	--	--	--	--	--	--	--	--	.020	.30
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	.010	.36
JUL											
31...	--	--	--	--	--	--	--	--	--	.030	.21
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT											
03...	.230	.80	.360	.350	--	--	--	--	--	--	--
18...	--	--	--	--	170	2	<1	3	300	130	170
DEC											
05...	.150	.68	.670	.610	--	--	--	--	--	--	--
FEB											
06...	.140	.67	.340	.300	--	--	--	--	--	--	--
MAR											
26...	.060	.70	.230	.200	--	--	--	--	--	--	--
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
31...	.030	.65	.460	.430	--	--	--	--	--	--	--
JUL											
31...	.060	.89	.420	.410	--	--	--	--	--	--	--
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT											
18...	1	0	1	<10	10	<.1	<1	120	20	11	47
MAY											
21...	--	--	--	--	--	--	--	--	--	14	--

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	225		---	---	---		---	---	---	---	---
2	---	---		---	---	---		---	---	---	---	---
3	---	---		140	---	---		---	---	---	---	294
4	220	---		---	---	---		---	315	---	---	---
5	---	---		---	---	140		---	---	---	---	---
6	---	---		---	593	---		165	---	---	---	---
7	---	241		---	---	---		---	---	---	---	---
8	---	---		---	---	---		---	---	---	243	---
9	---	---		173	---	---		---	---	---	---	---
10	---	---		---	---	142		---	---	---	---	279
11	---	---		---	---	---		---	---	---	---	---
12	195	---		---	---	---		---	350	143	262	---
13	---	---		---	660	---		---	---	---	---	---
14	---	---		---	---	---		---	---	---	---	---
15	---	---		---	---	---		---	---	---	---	---
16	---	290		---	---	---		330	---	---	---	---
17	---	---		---	---	---		---	---	---	---	320
18	198	---		245	---	---		---	202	208	---	---
19	---	---		---	---	---		---	---	---	---	---
20	---	---		---	620	212		---	---	---	271	---
21	---	233		---	---	---		---	---	---	---	---
22	---	---		---	---	---		---	---	---	---	---
23	---	---		165	---	---		274	---	253	---	---
24	205	---		---	---	---		---	---	---	---	373
25	---	---		---	---	---		---	---	---	---	---
26	---	---		---	---	212		---	236	---	---	---
27	---	---		---	---	---		---	---	---	---	---
28	---	300		---	483	---		---	---	---	257	---
29	---	---		---	---	---		---	---	---	---	---
30	---	---		---	---	---		276	---	233	---	---
31	---	---		305	---	---		---	---	---	---	---
MEAN	205	258		206	589	177		261	276	209	258	317

WTR YR 1984 MEAN 273 MAX 660 MIN 140

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	24.0		---	---	---		---	---	---	---	---
2	---	---		---	---	---		---	---	---	---	---
3	---	---		12.0	---	---		---	---	---	---	26.0
4	25.0	---		---	---	---		---	26.0	---	---	---
5	---	---		---	---	21.0		---	---	---	---	---
6	---	---		---	14.0	---		23.0	---	---	---	---
7	---	24.0		---	---	---		---	---	---	---	---
8	---	---		---	---	---		---	---	---	26.5	---
9	---	---		12.0	---	---		---	---	---	---	---
10	---	---		---	---	24.0		---	---	---	---	25.5
11	---	---		---	---	---		---	---	---	---	---
12	25.0	---		---	---	---		---	25.0	26.5	26.5	---
13	---	---		---	16.0	---		---	---	---	---	---
14	---	---		---	---	---		---	---	---	---	---
15	---	---		---	---	---		---	---	---	---	---
16	---	18.0		---	---	---		25.0	---	---	---	---
17	---	---		---	---	---		---	---	---	---	26.5
18	24.5	---		12.0	---	---		---	23.0	25.5	---	---
19	---	---		---	---	---		---	---	---	---	---
20	---	---		---	21.0	21.0		---	---	---	27.0	---
21	---	18.0		---	---	---		---	---	---	---	---
22	---	---		---	---	---		---	---	---	---	---
23	---	---		13.0	---	---		26.0	---	26.0	---	---
24	27.0	---		---	---	---		---	---	---	---	26.0
25	---	---		---	---	---		---	---	---	---	---
26	---	---		---	---	22.0		---	28.0	---	---	---
27	---	---		---	---	---		---	---	---	---	---
28	---	18.0		---	22.0	---		---	---	---	26.5	---
29	---	---		---	---	---		---	---	---	---	---
30	---	---		---	---	---		25.0	---	26.5	---	---
31	---	---		16.0	---	---		---	---	---	---	---
MEAN	25.5	20.5		12.5	18.5	22.0		25.0	25.5	26.0	26.5	26.0

WTR YR 1984 MEAN 22.5 MAX 28.0 MIN 12.0

TAMPA BAY AND COASTAL AREAS

02307323 BROOKER CREEK NEAR LAKE FERN, FL

LOCATION.--Lat 28°08'26", long 82°38'24", in NE¼ sec.18, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank 20 ft downstream from bridge on State Highway 582, 2.9 mi downstream from Island Ford Lake, 3.7 mi west of Lake Fern, 6.0 mi northwest of Citrus Park, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--17 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 25.52 ft National Geodetic Vertical Datum of 1929. Prior to August 1983, water-stage recorder on downstream side of bridge at same datum.

REMARKS:--Records poor. Some regulation by control structure at outflow of Island Ford Lake (02307295) 2.9 mi upstream.

AVERAGE DISCHARGE.--14 years, 7.59 ft³/s, 6.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 333 ft³/s June 27, 1974; maximum gage height, 5.91 ft Sept. 24, 1979; no flow for many days each year; creek dry at gage for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³ Dec. 30, gage height, 4.62 ft, from maximum indicator; minimum, 0.01 ft³/s May 21; minimum gage height, 1.32 ft May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	1.3	.99	54	9.3	28	4.4	6.0	12	7.7	29	2.0
2	8.5	1.1	.84	45	9.4	23	3.7	5.6	12	7.2	31	1.8
3	5.4	.94	.74	40	9.8	23	3.1	5.2	12	6.8	30	1.5
4	3.3	.86	.69	36	9.3	26	8.1	5.0	11	7.4	26	1.5
5	2.3	.81	.69	33	11	26	19	4.9	9.1	9.1	30	3.0
6	1.7	.76	1.0	31	16	25	23	4.7	5.0	14	28	3.7
7	1.3	.76	2.6	29	20	24	23	4.2	2.1	17	24	3.2
8	1.1	.83	2.3	27	22	23	23	3.9	.96	18	23	2.5
9	3.8	.90	1.7	26	22	22	22	3.7	.50	18	22	1.9
10	5.2	.87	1.3	60	21	20	23	2.5	.25	21	20	1.4
11	5.0	.79	1.1	55	13	11	22	1.5	.13	21	21	1.1
12	5.5	.67	5.6	49	7.1	5.9	21	.86	.08	19	20	.34
13	5.4	.58	7.9	46	5.4	6.0	19	.52	.06	18	16	.66
14	4.8	.50	19	45	6.1	5.1	16	.33	.04	17	14	.52
15	6.8	.44	41	45	7.5	3.8	11	.20	.04	17	13	.39
16	11	.50	44	45	12	2.9	9.3	.12	.06	16	12	.30
17	13	.47	38	44	14	2.2	7.6	.08	.40	16	15	.22
18	12	.42	28	40	14	3.1	6.3	.06	5.4	15	16	.17
19	11	.37	17	41	14	5.9	6.0	.05	6.7	15	15	.15
20	10	.83	15	38	14	7.5	6.1	.03	3.6	15	14	.12
21	7.8	3.0	26	33	15	11	6.2	.01	1.9	15	19	.10
22	6.1	2.5	26	29	25	12	6.3	.02	1.1	13	23	.09
23	7.8	1.8	23	26	24	12	6.3	.52	1.1	12	17	.07
24	6.4	1.4	21	23	20	12	6.5	1.1	2.5	11	12	.06
25	6.9	1.3	21	22	17	11	6.4	.73	2.5	12	9.8	.05
26	5.9	1.1	20	20	16	9.5	6.4	.53	3.0	13	8.4	.04
27	4.5	.93	20	19	21	12	10	4.0	5.5	25	7.4	.03
28	3.4	.85	19	19	48	12	9.9	9.6	5.7	27	6.5	1.2
29	2.5	.96	66	16	38	9.3	7.6	7.8	5.5	22	5.5	1.7
30	1.9	1.1	72	13	---	6.9	6.5	5.4	6.3	28	4.1	1.2
31	1.5	---	62	11	---	5.4	---	9.5	---	28	2.8	---
TOTAL	182.8	29.64	605.45	1060	480.9	406.5	348.7	88.66	116.52	501.2	534.5	31.51
MEAN	5.90	.99	19.5	34.2	16.6	13.1	11.6	2.86	3.88	16.2	17.2	1.05
MAX	13	3.0	72	60	48	28	23	9.6	12	28	31	3.7
MIN	1.1	.37	.69	11	5.4	2.2	3.1	.01	.04	6.8	2.8	.03
CFSM	.35	.06	1.15	2.01	.98	.77	.68	.17	.23	.95	1.01	.06
IN.	.40	.06	1.32	2.32	1.05	.89	.76	.19	.25	1.10	1.17	.07

CAL YR 1983 TOTAL 4251.48 MEAN 11.6 MAX 80 MIN .00 CFSM .68 IN 9.30
WTR YR 1984 TOTAL 4386.38 MEAN 12.0 MAX 72 MIN .01 CFSM .71 IN 9.60

02307323 BROOKER CREEK NEAR LAKE FERN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
03...	0917	2.84	5.6	78	4.4	23.5	1.1	--
17...	0900	3.27	13	80	5.7	24.5	4.3	27
DEC								
12...	1000	2.80	4.7	82	5.7	18.5	3.6	--
FEB								
06...	1030	3.30	16	85	5.3	13.5	6.2	--
APR								
02...	0950	2.61	4.0	80	5.6	17.0	4.2	--
MAY								
15...	1423	1.81	.20	--	--	--	--	--
24...	0945	2.19	1.1	175	5.8	23.0	1.5	23
JUN								
04...	1015	3.03	11	95	5.8	21.5	2.7	--
AUG								
09...	1000	3.78	21	79	5.0	26.0	1.3	--
SEP								
10...	1544	2.41	1.3	--	--	--	--	--

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°05'45", long 82°41'15", in NE¼ sec.34, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank, 1.9 mi upstream from mouth, and 5 mi southeast of Tarpon Springs.

DRAINAGE AREA.--30 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to current year.

REVISED RECORDS.--WRD FL 1969: 1968(M).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years, 21.1 ft³/s, 9.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s Mar. 17, 1960, gage height, 13.32 ft; no flow many days most years; minimum gage height, 5.76 ft June 2-4, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 198 ft³/s Dec. 30, gage height, 11.60 ft, no other peak above base of 150 ft³/s; no flow all or part of each day June 20-24; minimum gage height, 7.19 ft June 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	8.1	4.1	123	23	78	11	3.3	1.3	5.3	97	8.3
2	21	7.0	4.1	99	20	65	9.3	2.8	.79	4.5	90	7.1
3	18	6.0	3.9	85	19	55	8.1	3.0	.47	4.5	77	9.6
4	15	5.2	3.6	75	16	47	15	2.9	.31	5.4	62	9.0
5	13	4.5	3.4	68	15	40	26	3.0	.23	8.2	49	18
6	11	3.9	3.6	62	14	36	33	2.8	.20	15	40	20
7	9.0	3.4	4.4	58	12	33	30	2.4	.18	16	34	20
8	7.5	3.0	4.2	54	11	30	26	2.1	.19	14	29	19
9	6.3	2.9	4.6	51	11	28	22	2.0	.20	11	26	16
10	5.2	2.8	4.6	60	11	26	22	1.9	.18	8.7	23	13
11	7.8	2.5	4.3	81	12	24	22	1.5	.15	9.3	21	11
12	8.2	2.2	9.3	82	13	23	22	1.1	.12	14	19	9.4
13	8.2	1.9	13	75	17	28	22	.93	.05	13	17	7.1
14	8.0	1.6	17	70	29	30	22	.77	.01	14	16	5.5
15	9.8	1.4	19	64	31	30	21	.63	.02	15	15	4.5
16	12	1.5	19	59	31	26	22	.50	.05	16	14	4.2
17	14	1.4	23	55	26	21	21	.28	.03	13	14	4.0
18	22	1.1	41	52	22	17	20	.12	.01	11	15	3.3
19	35	.95	55	52	18	14	18	.03	.01	9.5	15	3.7
20	32	2.2	52	53	17	11	16	.02	.01	11	17	3.5
21	30	4.9	44	52	17	9.4	13	.01	.00	13	32	2.9
22	25	4.9	37	49	24	7.6	11	.03	.00	17	48	1.9
23	26	5.0	31	46	37	7.3	8.5	1.6	.00	52	49	1.4
24	28	4.9	27	48	40	7.4	7.0	2.1	.79	69	42	1.9
25	24	4.6	24	50	36	7.4	7.0	1.8	2.4	78	35	1.5
26	20	4.0	22	45	33	8.2	5.8	1.8	2.8	84	28	1.2
27	17	3.6	21	40	41	12	5.4	2.2	2.7	110	23	1.0
28	15	3.5	21	35	87	14	4.3	3.7	2.1	94	18	12
29	13	4.0	69	32	98	15	4.2	2.5	2.7	69	15	13
30	11	4.2	184	29	---	14	3.8	2.3	3.9	77	13	11
31	9.4	---	164	27	---	12	---	2.2	---	100	10	---
TOTAL	505.4	107.15	937.1	1831	781	776.3	478.4	52.32	21.90	981.4	1003	244.0
MEAN	16.3	3.57	30.2	59.1	26.9	25.0	15.9	1.69	.73	31.7	32.4	8.13
MAX	35	8.1	184	123	98	78	33	3.7	3.9	110	97	20
MIN	5.2	.95	3.4	27	11	7.3	3.8	.01	.00	4.5	10	1.0
CFSM	.54	.12	1.01	1.97	.90	.83	.53	.06	.02	1.06	1.08	.27
IN.	.63	.13	1.16	2.27	.97	.96	.59	.06	.03	1.22	1.24	.30

CAL YR 1983 TOTAL 8289.87 MEAN 22.7 MAX 184 MIN .00 CFSM .76 IN 10.28
WTR YR 1984 TOTAL 7718.97 MEAN 21.1 MAX 184 MIN .00 CFSM .70 IN 9.57

TAMPA BAY AND COASTAL AREAS

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
04...	1525	9.07	14	87	79	5.3	6.4	25.0	240	3.0
NOV										
08...	1100	8.23	3.0	92	94	5.7	6.3	19.0	200	3.4
DEC										
07...	1520	8.39	4.3	110	106	6.1	6.3	18.5	200	3.7
JAN										
09...	1100	10.32	51	90	99	6.0	6.2	11.0	200	5.5
FEB										
07...	1530	8.99	12	118	115	6.4	6.4	13.0	200	6.8
MAR										
07...	1435	9.82	32	78	91	6.4	6.0	19.5	150	4.1
APR										
03...	1520	8.73	7.8	117	128	6.5	6.2	21.0	240	4.8
30...	1530	8.21	4.0	162	157	6.6	6.6	24.0	160	4.9
MAY										
15...	1550	7.61	.60	--	--	--	--	--	--	--
24...	0855	7.94	2.2	130	--	5.9	--	23.0	--	3.9
JUN										
05...	1515	7.48	.20	170	173	6.2	6.5	23.0	200	2.6
JUL										
02...	1515	8.26	4.4	98	94	6.2	6.2	26.5	240	5.2
AUG										
13...	1100	9.26	17	80	84	6.0	5.6	26.0	320	2.8
SEP										
05...	1130	9.36	20	92	93	6.5	6.6	24.0	280	3.3
10...	0926	9.03	13	--	--	--	--	--	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT										
04...	7.8	1.6	6.3	1.1	3.6	17	.40	4.6	112	.010
NOV										
08...	9.3	2.2	7.0	1.5	.8	16	.30	6.8	137	.010
DEC										
07...	11	2.1	8.0	1.8	12	19	.30	6.6	138	.010
JAN										
09...	7.3	1.8	6.4	2.0	12	14	.20	3.0	92	.020
FEB										
07...	10	1.8	8.7	2.2	9.8	18	.20	1.7	113	.020
MAR										
07...	9.2	1.6	6.7	1.3	7.2	17	.20	.4	84	.010
APR										
03...	13	2.1	9.3	1.2	12	18	.20	2.1	106	.010
30...	17	2.6	12	3.0	14	25	.20	3.9	137	.020
MAY										
15...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	16	2.8	10	1.8	13	22	.30	4.8	143	.010
JUL										
02...	9.0	2.0	7.2	1.8	5.6	15	.30	45	106	.010
AUG										
13...	8.5	1.6	6.3	1.3	2.4	14	.30	4.5	103	.010
SEP										
05...	12	1.6	6.0	1.4	3.2	13	.30	4.4	111	.010
10...	--	--	--	--	--	--	--	--	--	--

TAMPA BAY AND COASTAL AREAS

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)	BICARBONATE, FET-LAB (MG/L AS HCO3) (95440)
OCT									
04...	.01	.080	1.1	.050	.030	10	--	8.0	--
NOV									
08...	.04	<.010	1.1	.050	.050	110	--	12	--
DEC									
07...	.02	.010	1.1	.080	.050	90	--	13	--
JAN									
09...	.02	.020	.76	.110	.100	70	--	4.0	--
FEB									
07...	.26	.040	.81	.110	.110	90	--	13	--
MAR									
07...	<.02	.020	.89	.040	.030	60	--	11	--
APR									
03...	.02	.030	1.2	.090	.050	120	--	22	28
30...	.55	.050	1.2	.350	.280	130	--	26	--
MAY									
15...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	36	--	--
JUN									
05...	.03	.060	1.2	.260	.130	190	--	27	--
JUL									
02...	.02	.010	1.0	.160	.100	100	--	10	--
AUG									
13...	<.02	.030	1.3	.100	.080	90	--	9.0	--
SEP									
05...	.02	.030	1.2	.110	.060	<10	--	17	--
10...	--	--	--	--	--	--	--	--	--

02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR, FL

LOCATION.--Lat 28°03'10", long 82°42'34", in NW¼ sec.16, T.28 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank of outfall canal at control structure, 300 ft east of State Highway 593, 1,000 ft north of State Highway 586, and 3.4 mi northwest of Oldsmar.

DRAINAGE AREA.--65 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to September 1974 (gage heights only); October 1974 to current year.

GAGE.--Dual water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated at station by manipulation of vertical lift gates and slide gates.

COOPERATION.--Records of gate operations furnished by Southwest Florida Water Management District.

AVERAGE DISCHARGE.--9 years, 39.6 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--1971-74: Maximum gage height, 14.22 ft Dec. 28, 1972 (affected by seiche); minimum, 10.40 ft June 5, 1974.
1975-83: Maximum daily discharge, 2,260 ft³/s Sept. 24, 1979; maximum gage height, 14.24 ft Sept. 28, 1975 (affected by seiche); no flow many days each year; minimum gage height, 11.13 ft July 4, 1977 (affected by seiche).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s June 27, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 961 ft³/s Feb. 17; maximum gage height, 13.81 ft Feb. 2; no flow for many days; minimum gage height, 11.86 ft July 19 (affected by gate manipulation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	28	28	46	13	132	1.2	7.8	78	.08	241	.00
2	15	26	25	63	12	.45	20	4.2	.00	.43	.00	.19
3	16	25	22	354	12	3.9	35	1.7	.00	.39	293	.18
4	17	23	22	540	16	7.7	45	2.1	.00	14	.00	.99
5	16	24	23	342	20	9.2	74	2.5	.00	7.1	.08	11
6	17	23	28	.00	24	13	65	1.9	.00	17	45	16
7	16	21	39	.60	16	31	59	1.4	.00	20	1.7	20
8	14	26	30	2.6	13	26	51	.90	.00	20	96	21
9	14	27	26	6.7	12	27	50	2.2	.00	19	310	22
10	13	25	23	102	12	26	60	.36	.00	458	.00	8.5
11	20	27	19	244	13	26	55	.03	.00	346	.00	2.3
12	30	20	298	427	15	27	47	.04	.00	.00	.00	2.7
13	34	16	378	264	120	45	43	.02	.00	.02	.00	3.0
14	40	13	29	271	425	48	41	.00	.00	15	.00	2.7
15	59	12	3.4	75	214	46	40	.00	.00	4.5	.00	2.7
16	79	21	5.9	.44	.16	46	43	.00	.00	15	.02	2.9
17	78	14	20	3.5	.73	45	37	.00	.00	16	.04	5.9
18	160	10	38	9.0	1.4	42	33	.00	.00	17	.00	9.5
19	138	7.9	173	29	2.4	37	29	.00	.00	20	.08	28
20	12	16	184	34	6.0	30	27	.00	.00	21	17	30
21	14	36	28	45	11	43	25	.00	.00	21	382	27
22	18	35	32	45	27	33	21	.29	.00	391	570	23
23	39	32	40	316	39	26	21	.18	.00	872	261	22
24	160	31	53	452	274	21	25	.13	.00	5.1	.00	20
25	175	42	41	114	22	14	18	.11	.00	746	.00	16
26	29	30	31	.23	20	14	14	.32	.00	207	.00	15
27	29	26	26	2.7	46	13	12	2.9	.00	221	6.0	18
28	27	29	27	6.1	1060	8.2	12	7.4	.00	330	.00	1020
29	27	34	1220	8.7	180	18	10	90	.00	480	.00	120
30	27	30	448	9.7	---	6.6	8.8	160	.03	398	.00	5.7
31	28	---	23	14	---	2.4	---	80	---	697	.00	---
TOTAL	1375	729.9	3383.3	3827.27	2626.69	867.45	1022.0	366.48	78.03	5378.62	2222.92	1476.26
MEAN	44.4	24.3	109	123	90.6	28.0	34.1	11.8	2.60	174	71.7	49.2
MAX	175	42	1220	540	1060	132	74	160	78	872	570	1020
MIN	12	7.9	3.4	.00	.16	.45	1.2	.00	.00	.00	.00	.00

CAL YR 1983 TOTAL 26583.10 MEAN 72.8 MAX 1220 MIN .00
WTR YR 1984 TOTAL 23353.92 MEAN 63.8 MAX 1220 MIN .00

TAMPA BAY AND COASTAL AREAS

02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	TEMPER-ATURE (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT						
05...	1100	13.08	509	510	28.0	120
DEC						
14...	1155	13.00	714	710	19.0	180
FEB						
08...	1120	13.19	667	685	14.5	170
APR						
04...	1010	13.10	650	640	21.0	160
MAY						
14...	1451	12.70	--	--	--	--
JUN						
06...	1215	12.45	920	925	27.5	240
AUG						
15...	1215	12.68	590	596	31.0	150

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL

LOCATION.--Lat 27°58'30", long 82°43'41", in SW¼ sec.8, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank, 600 ft east of U. S. Highway 19, 1.0 mi north of State Highway 60, 1.8 mi upstream from mouth, and 5.3 mi east of City Hall in Clearwater.

DRAINAGE AREA.--6.17 mi².

PERIOD OF RECORD.--May 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6.88 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 327 ft³/s Aug. 10, 1982, gage height, 12.27 ft; minimum, 0.53 ft³/s May 28, 29, 30, 1982; minimum gage height, 3.10 ft June 13, 14, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 299 ft³/s Sept. 28, gage height, 10.25 ft, no other peak above base of 190 ft³/s; minimum discharge, 2.0 ft³/s June 13, 14, gage height 3.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.0	7.9	13	5.4	15	3.7	2.9	3.1	17	28	8.0
2	6.5	6.5	7.7	11	5.1	13	3.6	2.9	2.9	7.8	19	7.4
3	5.8	6.0	7.7	9.9	4.9	12	3.5	2.9	2.9	25	16	6.1
4	5.7	5.7	7.3	9.3	5.6	11	58	2.9	2.9	24	14	5.6
5	5.7	5.5	7.0	9.1	5.0	9.6	22	3.0	2.9	11	12	15
6	5.8	5.4	18	9.1	4.4	9.3	12	3.0	2.9	18	9.9	13
7	5.7	5.3	14	8.9	4.3	9.4	9.9	3.0	2.8	15	8.7	10
8	5.6	6.5	13	8.4	4.4	8.6	8.3	3.0	2.7	10	7.8	8.0
9	5.4	6.4	12	7.6	4.3	7.7	7.6	3.0	2.7	7.8	6.7	7.0
10	15	5.8	13	54	4.6	7.3	6.4	3.0	2.6	7.3	5.8	6.0
11	44	5.5	13	29	4.7	7.0	5.3	3.0	2.6	15	5.3	5.0
12	25	5.2	43	18	4.7	14	4.5	3.0	2.4	14	4.6	4.0
13	14	5.1	13	20	23	23	3.6	3.0	2.1	30	18	3.5
14	14	5.0	13	14	14	11	3.3	3.0	4.6	45	16	3.0
15	26	4.9	15	12	10	9.7	7.7	2.9	2.9	23	11	3.7
16	14	4.8	10	11	8.8	8.3	7.2	2.9	2.7	16	16	4.5
17	13	4.7	27	10	8.1	7.4	4.2	2.9	37	13	22	26
18	12	4.6	18	9.3	7.7	6.8	3.2	2.9	48	11	12	24
19	11	4.7	12	23	7.1	6.4	3.2	2.9	22	10	25	37
20	10	30	10	13	12	6.0	3.0	2.7	9.9	10	18	21
21	10	19	8.8	13	22	5.8	3.0	2.7	7.1	8.3	79	16
22	14	10	8.6	10	38	5.6	3.0	13	5.9	13	43	12
23	34	9.6	8.4	9.1	20	13	3.1	51	7.6	29	24	10
24	16	9.3	7.9	8.5	15	7.7	3.3	13	17	19	19	8.0
25	15	9.1	7.5	8.1	13	6.2	2.9	12	9.1	31	16	7.0
26	13	8.9	6.7	7.7	11	5.7	2.9	17	9.8	29	20	6.0
27	12	8.7	6.4	7.6	36	6.0	2.9	26	7.1	19	23	7.5
28	11	8.5	8.3	7.2	29	5.6	2.9	22	12	17	13	167
29	10	8.3	57	6.5	21	4.9	2.9	8.5	12	31	11	40
30	9.0	8.1	36	5.7	---	4.1	2.9	6.0	16	63	9.7	28
31	8.0	---	17	5.6	---	3.8	---	4.3	---	33	8.6	---
TOTAL	403.4	234.1	454.2	388.6	353.1	270.9	210.0	234.3	266.2	622.2	542.1	519.3
MEAN	13.0	7.80	14.7	12.5	12.2	8.74	7.00	7.56	8.87	20.1	17.5	17.3
MAX	44	30	57	54	38	23	58	51	48	63	79	167
MIN	5.4	4.6	6.4	5.6	4.3	3.8	2.9	2.7	2.1	7.3	4.6	3.0
CFSM	2.11	1.26	2.38	2.03	1.98	1.42	1.14	1.23	1.44	3.26	2.84	2.80
IN.	2.43	1.41	2.74	2.34	2.13	1.63	1.27	1.41	1.60	3.75	3.27	3.13
AC-FT	800	464	901	771	700	537	417	465	528	1230	1080	1030

CAL YR 1983 TOTAL 5759.0 MEAN 15.8 MAX 109 MIN 1.3 CFSM 2.56 IN 34.72 AC-FT 11420
WTR YR 1984 TOTAL 4498.4 MEAN 12.3 MAX 167 MIN 2.1 CFSM 1.99 IN 27.12 AC-FT 8920

NOTE.--No gage-height record Oct. 25 to Nov. 19.

02307671 ALLIGATOR CREEK BELOW U.S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	SODIUM, RECOV. FM BOT-TOM MA-TERIAL (MG/KG AS NA) (00934)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
OCT , 1983											
06...	1130	3.99	5.8	406	7.3	26.5	5.6	--	2.1	--	10
10...	2200	7.47	100	308	7.0	--	--	47	10	--	284
10...	2300	8.10	125	229	7.3	--	--	36	10	--	110
10...	2400	7.36	96	219	7.2	--	--	36	8.1	--	12
11...	0100	6.68	70	230	7.3	--	--	35	7.4	--	5
11...	0200	6.22	59	231	7.3	--	--	30	7.0	--	8
11...	0300	5.94	51	239	7.3	--	--	35	6.4	--	36
11...	0400	5.68	44	258	7.4	--	--	36	6.2	--	82
11...	1800	6.86	77	256	7.9	--	--	--	--	--	6
11...	1900	7.54	103	187	8.0	--	--	--	--	--	8
11...	2000	7.09	86	209	7.9	--	--	--	--	--	87
11...	2100	6.65	70	249	7.6	--	--	--	--	--	10
11...	2200	6.40	64	253	7.4	--	--	--	--	--	6
11...	2300	6.19	58	253	7.4	--	--	--	--	--	3
11...	2400	5.99	53	255	7.1	--	--	--	--	--	4
12...	0100	5.77	47	260	7.3	--	--	--	--	--	10
NOV											
20...	1415	4.32	17	--	--	--	--	55	8.4	--	--
20...	1500	7.76	120	420	7.1	--	--	46	5.6	--	72
20...	1600	8.18	138	185	7.4	--	--	--	--	--	114
20...	1700	7.02	94	--	7.4	--	--	--	--	190	76
20...	1800	6.41	69	191	7.4	--	--	--	--	--	60
20...	1900	6.06	61	203	7.3	--	--	21	4.6	--	44
20...	2000	5.77	53	219	7.3	--	--	--	--	--	44
23...	1145	3.96	9.3	--	7.3	20.5	8.1	34	2.3	--	12
DEC											
13...	1050	3.85	13	335	7.0	19.0	8.7	25	2.0	--	16
15...	1340	3.88	14	326	6.9	--	--	26	2.4	--	11
FEB , 1984											
09...	1315	3.23	4.4	443	7.4	16.0	9.6	40	2.4	--	8
13...	1300	5.47	75	395	7.0	--	--	--	--	--	232
13...	1400	5.54	77	236	7.2	--	--	110	1.0	--	140
13...	1500	4.68	82	215	7.3	--	--	55	1.0	--	64
2[illegible]-21	--	--	--	--	--	--	--	65	1.0	--	109
21...	2000	6.05	94	--	--	--	--	--	--	--	--
21-21	2000	--	--	--	--	--	--	65	1.0	--	--
21...	2100	5.74	83	--	--	--	--	--	--	--	--
21...	2200	5.42	72	--	--	--	--	--	--	--	--
21...	2300	5.05	61	--	--	--	--	--	--	--	--
21...	2400	4.69	50	--	--	--	--	--	--	--	--
22-22	--	--	--	--	--	--	--	60	1.0	--	70
22...	0500	5.59	78	--	--	--	--	--	--	--	--
22...	0600	5.32	69	--	--	--	--	--	--	--	--
22...	0700	4.90	57	--	--	--	--	--	--	--	--
MAY											
22...	2100	5.67	77	394	6.8	--	--	150	--	--	229
22...	2200	5.10	59	365	7.0	--	--	60	--	--	216
22...	2400	6.41	105	286	7.0	--	--	170	--	--	400
23...	0100	7.26	144	211	7.3	--	--	85	--	--	270
23...	0200	6.71	119	187	7.3	--	--	48	--	--	140
23...	0300	6.15	94	205	7.2	--	--	40	--	--	74
23...	0400	5.74	79	226	7.2	--	--	38	--	--	55
23...	0500	5.46	70	245	7.2	--	--	36	--	--	25
23...	0600	5.21	63	259	7.2	--	--	37	--	--	24
23...	0700	5.04	58	266	7.2	--	--	33	--	--	24
JUN											
12...	1430	3.11	2.2	233	7.0	29.0	7.5	24	4.1	--	308
17...	1600	7.32	146	238	7.2	--	--	150	--	--	14
17...	1700	7.17	140	175	7.1	--	--	60	--	--	143
17...	1800	6.44	106	226	7.1	--	--	48	--	--	19
17...	1900	6.09	92	484	7.3	--	--	33	--	--	9
17...	2000	5.89	84	--	--	--	--	35	--	--	--
17...	2100	5.64	76	230	7.1	--	--	32	--	--	18
17...	2200	5.40	69	180	7.2	--	--	22	--	--	67
17...	2300	5.17	61	250	7.1	--	--	40	--	--	16
17...	2400	4.99	56	265	7.1	--	--	33	--	--	15
18...	0100	4.82	5[illegible]	264	7.1	--	--	30	--	--	35
SEP											
06...	1230	3.62	11	--	--	27.5	5.7	30	2.1	--	--

AVAILABLE

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U.S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT , 1983											
06...	.030	.62	.160	.88	.350	.310	--	--	--	--	--
10...	.040	.65	.180	1.4	2.70	2.50	33	40	100	<.1	310
10...	.030	.50	.150	1.3	1.80	1.70	38	20	52	<.1	110
10...	.030	.48	.320	1.4	.890	.870	26	10	25	<.1	60
11...	.030	.48	.320	1.1	.680	.660	21	10	17	<.1	50
11...	.030	.47	.190	1.1	.610	.600	19	10	16	<.1	50
11...	.030	.43	.190	.98	.510	.500	23	10	14	<.1	50
11...	.060	.39	.170	1.1	.470	.420	20	10	12	<.1	40
11...	--	--	--	--	--	--	35	30	72	<.1	170
11...	--	--	--	--	--	--	31	20	63	<.1	120
11...	--	--	--	--	--	--	28	10	32	<.1	60
11...	--	--	--	--	--	--	17	10	17	<.1	30
11...	--	--	--	--	--	--	16	10	14	<.1	40
11...	--	--	--	--	--	--	23	10	12	<.1	40
11...	--	--	--	--	--	--	16	<10	13	<.1	30
12...	--	--	--	--	--	--	14	<10	11	<.1	40
NOV											
20...	.030	.10	.230	2.0	.320	.120	--	--	--	--	--
20...	.040	.50	.480	7.2	4.40	.280	17	24	96	--	290
20...	--	--	--	--	--	--	9	11	36	--	70
20...	--	--	--	--	--	--	7	10	25	--	50
20...	--	--	--	--	--	--	9	8	26	--	50
20...	.020	.31	.080	.82	.490	.270	6	7	20	--	50
20...	--	--	--	--	--	--	7	5	18	--	50
23...	.030	.36	.250	.84	.380	.310	--	--	--	--	--
DEC											
13...	.020	.22	.190	.82	.640	.570	--	--	--	--	--
15...	.020	.34	.200	.80	.290	.210	--	--	--	--	--
FEB , 1984											
09...	.060	1.5	.280	1.0	1.00	.960	<1	7	1	--	60
13...	--	--	--	--	--	--	3	34	100	--	170
13...	.080	.60	.310	2.3	1.70	.710	11	24	73	--	110
13...	.070	.55	.220	1.1	.780	.500	7	10	32	--	70
21-21	.030	.36	.150	1.8	1.20	.320	13	18	51	--	60
21...	--	--	--	--	--	--	--	--	--	--	--
21-21	.030	.36	.150	1.8	1.20	.320	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
22-22	.020	.23	.120	1.1	.730	.230	9	15	36	--	70
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	.020	.37	1.50	7.1	3.20	.750	16	21	79	--	130
22...	.030	.64	.220	2.0	1.50	.800	20	25	81	--	130
22...	.040	.61	.210	4.4	2.70	.530	34	45	200	--	220
23...	.020	.35	.150	2.5	1.80	.440	22	34	93	--	140
23...	.020	.31	.110	1.8	1.30	.420	14	16	47	--	70
23...	.020	.33	.100	1.2	.850	.410	10	12	33	--	40
23...	.020	.34	.090	1.1	.650	.360	6	8	21	--	30
23...	.020	.34	.080	1.1	.560	.350	6	6	20	--	40
23...	.020	.31	.080	1.1	.500	.320	4	5	9	--	30
23...	.020	.26	.100	1.2	.450	.270	4	6	8	--	50
JUN											
12...	.040	.48	.320	1.2	.690	.570	21	30	99	--	140
17...	.020	.26	.170	2.2	2.00	.330	4	4	4	--	20
17...	.020	.26	.090	2.0	1.20	.320	14	15	45	--	80
17...	.020	.26	.050	1.5	1.10	.310	<1	4	8	--	20
17...	.020	.28	.040	1.1	.680	.260	4	3	2	--	<10
17...	.020	.28	.030	.99	.510	.240	--	--	--	--	--
17...	.020	.25	.020	1.1	.480	.200	5	4	5	--	20
17...	.020	.23	.030	1.1	.430	.190	<8	9	23	--	50
17...	.020	.23	.030	.99	.430	.190	5	6	7	--	30
17...	.020	.22	.030	1.4	.420	.180	<1	4	6	--	20
18...	.020	.20	.040	1.3	.420	.180	5	6	9	--	30
SEP											
06...	.010	.30	.240	.95	.410	.340	--	--	--	--	--

TAMPA BAY AND COASTAL AREAS

02307673 ALLIGATOR CREEK AT CLEARWATER, FL

LOCATION.--Lat 27°58'22", long 82°42'57", in SE¼ sec.8, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, near left bank on upstream side of private bridge at Kapok Mobile Home Park, 0.7 mi upstream from State Highway 593, 1.0 mi upstream from Alligator Lake, and 6.0 mi east of City Hall in Clearwater.

DRAINAGE AREA.--6.73 mi².

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6.88 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 628 ft³/s Aug. 21, 1981, gage height, 7.82 ft; maximum gage height, 7.95 ft Sept. 28, 1984; no flow part of each day Apr. 3, 4, May 14, 15, 1984 (channel blocked for construction upstream).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 21	1645	273	5.42	Sept. 28	0615	*626	*7.95

No flow part of each day Apr. 3, 4, May 14, 15 (channel blocked for construction upstream).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	3.7	1.0	17	6.0	16	1.0	2.7	7.7	19	31	9.7
2	7.9	3.6	.80	13	5.7	12	1.1	2.7	5.0	7.6	20	9.4
3	8.7	3.1	.60	11	5.9	9.8	.53	2.2	4.2	20	16	8.3
4	6.9	2.6	.50	9.8	6.6	8.3	68	2.2	3.7	27	15	7.6
5	6.9	2.6	.45	11	6.2	7.2	30	2.4	3.2	10	13	17
6	6.5	2.6	19	9.2	5.2	6.7	15	2.4	2.7	15	11	17
7	5.9	4.1	16	8.7	5.3	6.1	11	2.2	2.2	15	9.7	12
8	5.4	6.9	13	8.2	5.1	5.6	8.8	1.3	2.0	10	8.8	8.5
9	5.4	8.4	12	7.3	4.9	5.0	7.5	.97	1.7	7.7	8.1	7.8
10	10	5.2	13	75	4.8	4.4	7.5	1.6	1.3	6.8	7.5	6.9
11	73	4.0	14	62	4.9	4.0	5.9	1.6	1.1	13	6.9	6.0
12	46	3.2	53	25	4.9	5.8	5.5	4.3	.61	14	6.3	4.6
13	17	2.5	14	25	19	31	5.1	4.0	.05	27	19	3.5
14	14	2.1	12	19	18	13	5.9	1.4	.06	57	20	3.2
15	36	2.2	14	15	9.0	8.3	8.6	.01	.35	23	15	3.8
16	17	2.2	9.9	13	6.4	6.7	13	.01	1.3	15	21	4.6
17	13	1.9	32	12	5.5	5.4	8.4	.01	40	12	28	29
18	10	1.5	34	11	5.0	4.4	6.1	.24	52	11	16	24
19	8.6	1.5	14	27	4.3	3.8	5.3	1.2	25	10	30	53
20	7.3	43	11	18	8.6	3.4	4.8	3.0	12	11	22	24
21	6.4	37	8.8	16	15	3.0	4.3	3.7	9.0	9.2	114	18
22	8.1	9.8	8.5	12	59	2.6	3.8	8.3	7.0	10	62	14
23	63	5.3	7.8	10	24	7.0	3.6	60	12	31	25	11
24	19	4.0	6.4	9.9	14	7.7	5.5	12	17	14	20	5.5
25	13	5.1	5.5	9.3	11	4.8	3.5	17	10	30	17	8.4
26	9.8	1.3	4.6	9.0	8.3	3.5	3.0	25	11	35	24	7.4
27	7.8	.76	3.8	8.7	38	3.0	2.7	32	7.0	19	29	7.7
28	6.4	.29	3.8	8.2	48	2.7	2.6	30	9.6	17	16	305
29	5.3	.28	78	7.3	25	2.0	2.4	12	13	30	14	58
30	4.4	1.2	69	6.6	---	1.6	2.3	8.9	15	95	12	35
31	4.1	---	24	6.4	---	1.3	---	11	---	38	10	---
TOTAL	461.7	171.93	504.45	500.6	383.6	206.1	252.73	256.34	276.77	659.3	667.3	733.9
MEAN	14.9	5.73	16.3	16.1	13.2	6.65	8.42	8.27	9.23	21.3	21.5	24.5
MAX	73	43	78	75	59	31	68	60	52	95	114	305
MIN	4.1	.28	.45	6.4	4.3	1.3	.53	.01	.05	6.8	6.3	3.2
CFSM	2.21	.85	2.42	2.39	1.96	.99	1.25	1.23	1.37	3.17	3.20	3.64
IN.	2.55	.95	2.79	2.77	2.12	1.14	1.40	1.42	1.53	3.64	3.69	4.06
AC-FT	916	341	1000	993	761	409	501	508	549	1310	1320	1460

CAL YR 1983 TOTAL 7379.29 MEAN 20.2 MAX 204 MIN .28 CFSM 3.00 IN 40.79 AC-FT 14640
WTR YR 1984 TOTAL 5074.72 MEAN 13.9 MAX 305 MIN .01 CFSM 2.07 IN 28.05 AC-FT 10070

AVAILABLE

02307673 ALLIGATOR CREEK AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
OCT , 1983										
06...	1210	.47	6.4	305	7.1	--	--	--	1.3	7
NOV										
23...	1220	.63	4.8	306	7.3	--	--	28	2.0	36
DEC										
13...	1125	.84	16	269	7.0	--	--	27	2.0	52
FEB , 1984										
09...	1415	.33	4.6	411	7.6	16.0	13.6	40	4.8	12
JUN										
12...	1520	.08	.04	192	7.2	31.0	4.6	29	2.9	39
SEP										
06...	1305	.91	16	--	--	24.5	3.2	11	1.7	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT , 1983										
06...	.030	.50	.080	1.4	.470	.260	--	--	--	--
NOV										
23...	.020	.28	.130	.66	.460	.230	--	--	--	--
DEC										
13...	.040	.27	.060	.61	.400	.310	--	--	--	--
FEB , 1984										
09...	.020	.37	.070	.98	.350	.280	2	1	5	10
JUN										
12...	.010	.03	.180	1.1	.370	.240	7	6	11	20
SEP										
06...	.010	.25	.170	.71	.300	.220	--	--	--	--

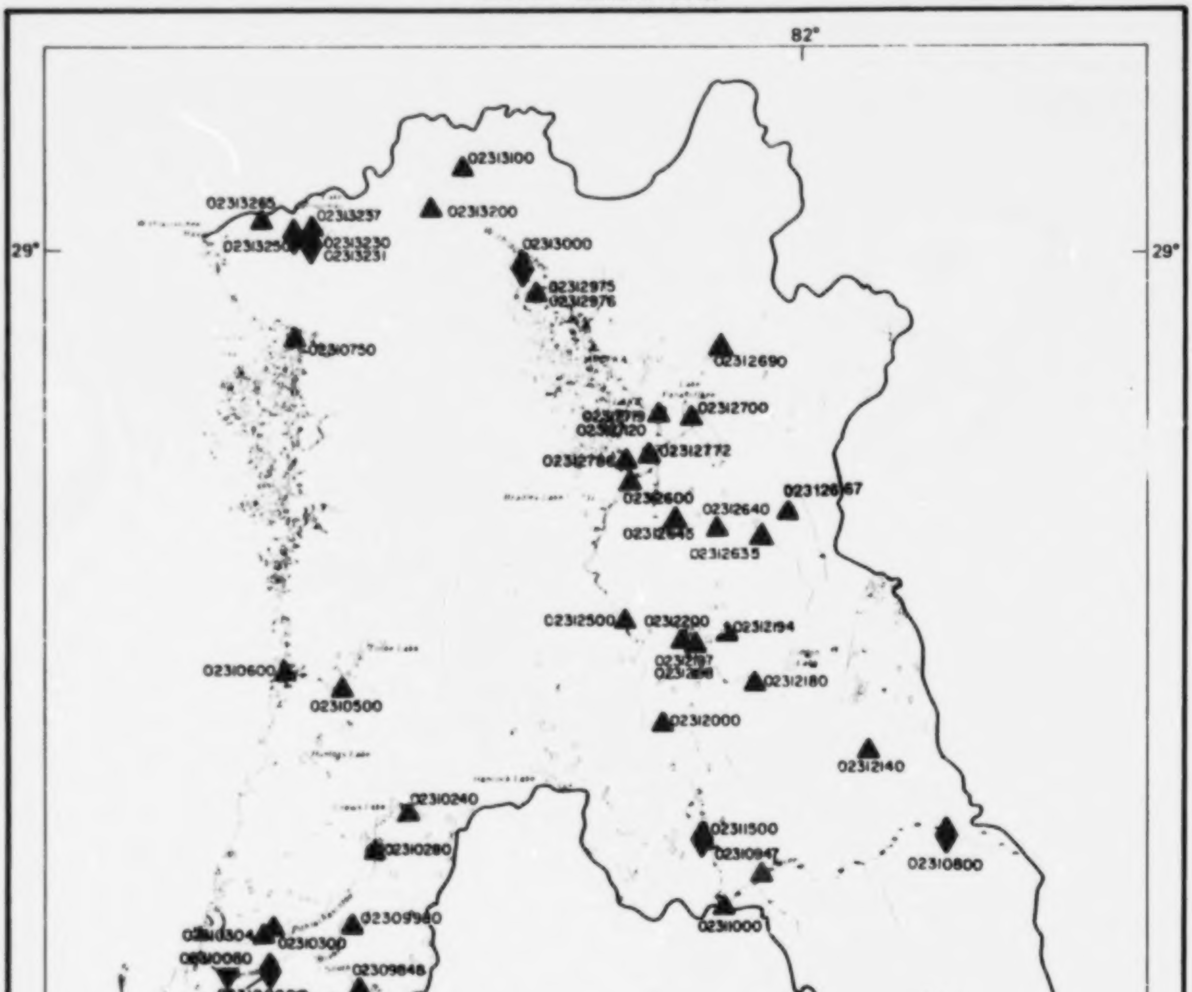

Figure 7. Location of stream gaging stations in the Withlacoochee River basin and coastal areas.

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309848 SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA, FL

LOCATION.--Lat 28°11'08", long 82°33'13", in SE¼ sec.25, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank, 30 ft downstream from bridge on State Highway 54, 2.5 mi east of Odessa, 3.0 mi upstream from unnamed tributary, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--17.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 46.22 ft National Geodetic Vertical Datum of 1929. Prior to Mar. 17, 1971, at site 30 ft upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--14 years, 3.36 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 280 ft^3/s June 26, 1974; maximum gage height, 4.98 ft Sept. 10, 1971; no flow for many days each year; river dry at gage many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft^3/s Dec. 29, gage height, 4.29 ft, no other peak above base of 60 ft^3/s; no flow for many days; minimum gage height, 0.88 ft May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.19	.19	15	1.2	6.7	.63	.00	.02	.00	27	.58
2	.35	.16	.15	9.8	1.1	4.6	.46	.00	.01	.00	13	.48
3	.23	.12	.13	6.6	1.0	3.4	.31	.00	.01	.11	5.3	.47
4	.17	.09	.13	4.4	1.1	2.6	8.9	.00	.00	.06	3.2	.32
5	.09	.06	.11	3.3	1.0	2.0	9.7	.00	.00	.12	3.5	.19
6	.04	.08	.18	2.6	.93	1.8	4.4	.00	.00	.17	2.8	.18
7	.02	.08	.39	2.1	.78	1.6	3.3	.00	.00	.19	2.0	.11
8	.06	.16	.30	1.7	.68	1.3	2.9	.00	.00	.17	2.1	.03
9	.27	.19	.25	1.5	.62	1.0	3.0	.00	.00	.12	2.0	.01
10	.21	.16	.23	6.0	.57	.90	3.2	.00	.00	.07	1.7	.01
11	.21	.13	.21	9.6	.53	.77	2.8	.00	.00	.06	12	.00
12	.29	.09	5.3	4.9	.50	.75	2.3	.00	.00	.07	12	.00
13	.25	.05	1.9	5.0	1.3	1.7	1.9	.00	.00	.05	5.1	.00
14	.25	.03	1.4	4.4	2.8	1.8	1.6	.00	.00	.07	2.9	.00
15	.37	.01	1.5	3.4	1.9	1.3	1.6	.00	.00	.15	2.5	.00
16	.38	.04	1.2	2.9	1.4	1.1	1.9	.00	.00	.13	1.9	.00
17	.43	.03	4.6	2.5	1.2	.91	1.8	.00	.00	.14	2.8	.00
18	.75	.02	7.7	2.4	1.0	.77	1.5	.00	.00	.09	2.5	.00
19	.60	.01	4.3	4.5	.80	.67	1.1	.00	.00	.07	2.1	.00
20	.48	.17	3.8	4.2	.74	.61	.78	.00	.00	.08	2.8	.00
21	.41	.54	3.4	3.7	1.3	.61	.51	.00	.00	.06	15	.00
22	.34	.47	2.9	3.1	8.8	.51	.30	.00	.00	.04	26	.00
23	.30	.41	2.5	2.6	5.7	.49	.20	.00	.00	.33	12	.00
24	.88	.36	2.0	2.2	3.4	.46	.16	.00	.00	.75	6.4	.00
25	.80	.35	1.6	2.1	2.6	.41	.04	.00	.00	1.4	4.0	.00
26	.63	.27	1.3	2.1	2.1	.48	.01	.00	.00	2.4	3.0	.00
27	.51	.23	1.1	2.1	15	1.4	.01	.53	.00	6.4	2.3	.00
28	.41	.22	1.1	1.9	30	1.7	.00	.24	.00	2.7	1.7	.00
29	.34	.26	62	1.7	11	1.4	.00	.14	.00	1.8	1.3	.00
30	.30	.24	67	1.5	---	1.1	.00	.09	.00	3.9	1.0	.00
31	.23	---	27	1.4	---	.84	---	.05	---	11	.77	---
TOTAL	11.08	5.22	205.87	121.2	101.05	45.68	55.31	1.05	.04	32.70	182.67	2.38
MEAN	.36	.17	6.64	3.91	3.48	1.47	1.84	.034	.001	1.05	5.89	.079
MAX	.88	.54	67	15	30	6.7	9.7	.53	.02	11	27	.56
MIN	.02	.01	.11	1.4	.50	.41	.00	.00	.00	.00	.77	.00

CAL YR 1983 TOTAL 1753.66 MEAN 4.80 MAX 67 MIN .00
WTR YR 1984 TOTAL 764.25 MEAN 2.09 MAX 67 MIN .00

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309848 SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
18...	0855	2.63	.80	100	6.7	23.5	2.5
DEC							
08...	1000	2.47	.30	124	6.9	12.5	5.2
FEB							
08...	1348	2.62	.70	80	6.0	12.0	7.0
MAR							
30...	0957	2.79	1.1	85	5.1	15.5	4.4
AUG							
02...	1330	3.47	13	99	5.8	24.0	3.9

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309980 ANCLOTE RIVER NEAR ODESSA, FL

LOCATION.--Lat 28°13'17", long 82°38'07", in SE¼ sec.18, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, on left bank, 30 ft downstream from wooden bridge on private road, 3.2 mi northwest of Odessa, and 18 mi upstream from mouth.

DRAINAGE AREA.--68.1 mi².

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 372 ft³/s Dec. 31, gage height, 27.45 ft; minimum, 0.39 ft³/s part of each day June 10-16, 22, gage height, 18.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	4.2	13	329	48	286	23	2.1	13	37	225	40
2	14	3.6	12	288	43	233	19	1.6	8.0	36	340	36
3	11	3.2	11	232	40	176	16	1.2	5.4	50	327	32
4	9.8	2.9	9.9	175	38	135	51	.93	3.6	68	278	25
5	8.9	2.9	9.1	135	35	107	121	.82	2.4	134	222	102
6	7.6	2.8	9.9	111	33	87	167	.70	1.5	188	172	123
7	6.2	3.0	13	94	29	73	132	.68	.91	169	130	69
8	5.6	4.5	13	81	26	62	102	.65	.60	133	108	53
9	13	8.7	13	71	23	53	106	.67	.50	102	103	43
10	25	8.8	12	79	22	46	136	.64	.46	82	89	39
11	23	7.7	11	129	20	40	117	.62	.44	68	74	35
12	20	6.4	29	152	18	37	92	.58	.44	57	71	30
13	16	5.7	67	154	31	49	74	.55	.42	55	73	26
14	16	4.7	85	150	52	53	61	.53	.44	68	66	22
15	22	4.0	75	137	63	50	54	.50	.44	65	61	18
16	25	4.0	74	120	60	45	49	.52	.42	62	66	15
17	32	3.5	85	106	54	39	44	.53	.45	55	90	12
18	28	3.2	114	95	50	34	38	.50	.53	49	82	9.9
19	22	2.9	116	111	45	30	31	.51	.48	49	70	8.4
20	18	5.7	106	127	42	27	25	.55	.47	41	69	7.4
21	15	14	92	133	41	30	21	.50	.44	35	112	5.8
22	13	14	78	125	56	27	17	.72	.43	29	244	4.6
23	12	13	67	114	68	25	15	1.2	1.4	27	284	3.8
24	11	12	58	101	77	23	13	2.8	6.6	29	252	3.0
25	9.7	11	49	91	75	21	10	1.8	32	28	199	2.4
26	9.0	9.8	42	84	69	21	8.1	3.0	49	31	151	1.9
27	8.1	9.9	36	81	93	41	6.7	54	50	107	118	1.7
28	7.0	10	33	80	257	44	5.1	89	45	92	93	18
29	6.1	11	134	71	311	39	3.7	58	41	77	75	16
30	5.5	12	333	62	---	32	2.8	32	41	93	60	13
31	4.8	---	366	54	---	27	---	21	---	131	48	---
TOTAL	441.3	209.1	2165.9	3872	1819	1992	1560.4	279.40	307.77	2248	4352	815.9
MEAN	14.2	6.97	69.9	125	62.7	64.3	52.0	9.01	10.3	72.5	140	27.2
MAX	32	14	366	329	311	286	167	89	50	188	340	123
MIN	4.8	2.8	9.1	54	18	21	2.8	.50	.42	27	48	1.7
AC-FT	875	415	4300	7680	3610	3950	3100	554	610	4460	8630	1620

WTR YR 1984 TOTAL 20062.77 MEAN 54.8 MAX 366 MIN .42 AC-FT 39790

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310000 ANCLOTE RIVER NEAR ELFERS, FL

LOCATION.--Lat 28°12'50", long 82°40'00", in NE¼ sec.23, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 40 ft downstream from bridge on State Highway 54, 3.5 mi east of Elfers, and 16 mi upstream from mouth.

DRAINAGE AREA.--72.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1946 to current year.

REVISED RECORDS.--WSP 1434: Drainage area. WSP 1905: 1950-65 (P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--38 years, 71.3 ft³/s, 13.35 in/yr.

EXTREME FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft³/s July 30, 1960, gage height, 26.09 ft; minimum, 0.40 ft³/s May 19, 1956 (affected by pumpage); minimum gage height, 6.56 ft Nov. 1, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 27.7 ft Aug. 8 or 9, 1945, from information by local residents and floodmarks; discharge, 5,000 ft³/s, from rating curve extended above 3,700 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 517 ft³/s Dec. 31, gage height, 16.37 ft, no other peak above base of 450 ft³/s; minimum, 3.6 ft³/s May 22, gage height, 6.71 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	7.6	14	425	53	315	28	5.9	17	42	233	37
2	17	7.0	14	322	47	251	24	5.6	13	41	397	33
3	14	6.5	12	252	43	197	20	5.3	10	59	401	33
4	13	6.3	11	200	41	153	65	5.1	7.6	93	306	25
5	12	6.2	9.9	156	39	123	133	4.9	6.1	196	245	142
6	11	6.2	10	126	36	100	185	4.8	5.5	217	201	199
7	9.6	6.2	15	108	33	83	153	4.6	5.1	198	155	99
8	9.0	6.8	15	94	30	71	118	4.4	4.9	158	126	73
9	13	10	14	82	28	60	138	4.5	4.7	122	118	57
10	28	12	13	92	26	52	171	4.3	4.9	100	103	50
11	29	10	12	141	24	46	146	4.2	4.7	83	84	43
12	28	8.8	31	166	23	42	116	4.1	4.5	72	78	37
13	25	8.0	65	169	36	55	92	4.1	4.4	66	81	32
14	23	7.4	92	165	59	60	76	4.1	4.5	80	71	28
15	32	6.8	84	151	69	58	66	4.0	4.5	78	63	24
16	32	6.6	81	133	66	51	60	3.9	4.3	74	77	20
17	38	6.3	93	118	60	45	53	3.8	4.1	67	103	17
18	37	5.8	126	105	55	39	46	3.8	5.2	59	95	15
19	31	5.5	128	123	50	35	38	3.8	5.3	61	80	13
20	26	7.6	117	139	46	32	32	3.8	6.4	54	79	12
21	22	14	103	147	45	35	27	3.8	5.6	47	130	11
22	19	17	88	138	62	32	21	6.3	5.3	40	300	9.8
23	18	16	75	126	75	30	18	9.3	6.7	40	325	8.7
24	16	14	65	112	84	28	16	7.9	7.7	41	263	8.0
25	15	12	55	99	83	26	14	7.3	28	43	216	7.2
26	14	11	47	92	77	26	12	6.5	47	42	169	6.6
27	13	11	40	88	110	46	10	50	52	124	132	7.0
28	11	11	37	86	260	51	8.2	100	48	114	99	23
29	9.8	12	158	77	348	46	7.2	72	42	97	77	21
30	9.1	13	378	67	---	38	6.5	40	44	136	60	18
31	9.1	---	506	59	---	33	---	26	---	159	46	---
TOTAL	604.6	278.6	2508.9	4358	2008	2259	1899.9	418.1	413.0	2803	4913	1109.3
MEAN	19.5	9.29	80.9	141	69.2	72.9	63.3	13.5	13.8	90.4	158	37.0
MAX	38	17	506	425	348	315	185	100	52	217	401	199
MIN	9.0	5.5	9.9	59	23	26	6.5	3.8	4.1	40	46	6.6
CFSM	.27	.13	1.12	1.95	.95	1.01	.87	.19	.19	1.25	2.18	.51
IN.	.31	.14	1.29	2.24	1.03	1.16	.97	.21	.21	1.44	2.52	.57

CAL YR 1983 TOTAL 22589.6 MEAN 61.9 MAX 515 MIN 3.0 CFSM .85 IN 11.59
WTR YR 1984 TOTAL 23573.4 MEAN 64.4 MAX 506 MIN 3.8 CFSM .89 IN 12.10

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310000 ANCLOTE RIVER NEAR ELFERS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT											
04...	0940	7.54	13	218	--	6.3	--	23.5	--	4.9	--
17...	0930	8.65	37	160	164	6.2	7.3	24.5	160	4.1	24
DEC											
07...	0945	7.68	15	246	--	7.2	--	20.0	--	4.8	--
FEB											
07...	1100	8.53	33	153	--	7.1	--	11.5	--	8.8	--
APR											
03...	1030	7.93	21	174	--	7.1	--	19.0	--	6.4	--
MAY											
14...	0917	6.77	4.1	--	--	--	--	--	--	--	--
23...	1420	7.22	8.4	310	--	--	--	23.0	--	5.0	--
JUN											
05...	1230	7.16	6.0	275	--	6.8	--	23.0	--	4.5	--
AUG											
14...	1030	9.95	72	100	--	6.8	--	25.5	--	5.9	--
SEP											
10...	1001	9.32	50	--	--	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
04...	--	--	--	--	--	--	--	--	.010	.14	.040
17...	2.6	6.1	1.4	7.6	13	.90	6.3	137	--	--	--
DEC											
07...	--	--	--	--	--	--	--	--	.020	.06	.040
FEB											
07...	--	--	--	--	--	--	--	--	.010	.03	.010
APR											
03...	--	--	--	--	--	--	--	--	.010	.07	.050
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	<.010	.19	.060
AUG											
14...	--	--	--	--	--	--	--	--	.010	.05	.040
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
04...	.83	.050	.040	--	--	--	--	--	--	--	--
17...	--	--	--	200	2	1	4	650	270	380	2
DEC											
07...	.50	.160	.100	--	--	--	--	--	--	--	--
FEB											
07...	.70	.040	.020	--	--	--	--	--	--	--	--
APR											
03...	.74	.050	.030	--	--	--	--	--	--	--	--
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	.53	.080	.050	--	--	--	--	--	--	--	--
AUG											
14...	1.2	.040	.030	--	--	--	--	--	--	--	--
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310000 ANCLOTE RIVER NEAR ELFERS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT											
17...	1	1	20	10	9	<.1	1	120	13	27	52
APR											
03...	--	--	--	--	--	--	--	--	--	21	--
MAY											
23...	--	--	--	--	--	--	--	--	--	12	--

02310000 ANCLOTE RIVER NEAR ELFERS, FL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	117	---	---	---	---	126
3	---	---	239	---	143	95	---	---	---	---	---	---
4	---	318	---	---	---	---	---	358	---	---	---	---
5	---	---	---	---	---	---	---	---	266	102	71	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	259	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	115	---	---	---	---	---	83	---	---
9	---	---	237	---	---	---	---	---	---	---	---	110
10	---	---	---	---	174	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	260	---	---	---	129	---	---	374	---	---	---
13	---	---	---	---	---	---	---	405	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	112	---	---	129	---	---	---	---	---
16	460	---	---	---	---	---	---	408	---	104	---	172
17	---	---	---	---	142	---	---	---	---	---	---	---
18	---	---	125	---	---	---	---	---	---	---	---	---
19	---	332	---	---	---	---	---	---	340	---	106	---
20	---	---	---	---	---	---	162	---	---	---	---	---
21	---	---	---	116	---	152	---	---	---	---	---	---
22	200	---	---	---	---	---	---	---	---	195	---	---
23	---	---	---	---	---	---	---	410	---	---	---	284
24	---	---	---	---	131	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	150	---	---	---
26	---	245	---	---	---	---	---	---	---	---	93	---
27	---	---	---	---	---	---	238	---	---	---	---	---
28	255	---	---	128	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	93	---	---
30	---	---	88	---	---	---	---	142	---	---	---	202
31	---	---	---	---	---	180	---	---	---	---	---	---
MEAN	294	289	172	118	148	139	162	345	283	115	90	179

WTR YR 1984 MEAN 198 MAX 460 MIN 71

02310000 ANCLOTE RIVER NEAR ELFERS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	19.0	---	---	---	---	25.0
3	---	---	20.0	---	15.0	15.0	---	---	---	---	---	---
4	---	22.0	---	---	---	---	---	24.0	---	---	---	---
5	---	---	---	---	---	---	---	---	23.0	23.0	26.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	11.0	---	---	---	---	---	25.0	---	---
9	---	---	16.0	---	---	---	---	---	---	---	---	24.0
10	---	---	---	---	15.0	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	20.0	---	---	---	19.5	---	---	25.0	---	---	---
13	---	---	---	---	---	---	---	24.0	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	12.0	---	---	20.0	---	---	---	---	---
16	25.0	---	---	---	---	---	---	24.0	---	25.0	---	25.0
17	---	---	---	---	17.0	---	---	---	---	---	---	---
18	---	---	17.0	---	---	---	---	---	---	---	---	---
19	---	19.0	---	---	---	---	---	---	24.0	---	26.0	---
20	---	---	---	---	---	---	18.5	---	---	---	---	---
21	---	---	---	12.0	---	19.0	---	---	---	---	---	---
22	24.5	---	---	---	---	---	---	---	---	25.0	---	---
23	---	---	---	---	---	---	---	24.0	---	---	---	25.0
24	---	---	---	---	15.0	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	25.5	---	---	---
26	---	18.5	---	---	---	---	---	---	---	---	26.0	---
27	---	---	---	---	---	---	22.0	---	---	---	---	---
28	20.5	---	---	17.0	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	25.0	---	---
30	---	---	12.0	---	---	---	---	24.0	---	---	---	25.0
31	---	---	---	---	---	17.0	---	---	---	---	---	---
MEAN	23.5	20.0	16.5	13.0	15.5	17.5	20.0	24.0	24.5	24.5	26.0	25.0

WTR YR 1984 MEAN 21.0 MAX 26.0 MIN 11.0

02310050 ANCLOTE RIVER AT PERRINE ROAD NEAR ELFERS, FL

LOCATION.--Lat 28°11'38", long 82°43'07", in SE¼ sec.29, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 145 ft upstream from bridge on Perrine Road, 0.3 mi west of County Road 595, 1.5 mi south of Elfers, and 9.2 mi upstream from mouth.

ELEVATION RECORDS

PERIOD OF RECORD.--October 1982 to current year (maximum and minimum elevations only).

GAGE.--Water-stage recorder. Datum of gage is 3.30 ft below National Geodetic Vertical Datum of 1929 (Pasco County bench mark); gage readings have been reduced to elevations NGVD. Prior to Sept. 24, 1984, at datum 0.28 ft lower.

REMARKS.--Gage records tidal fluctuations in Anclote River; elevations affected by flow from Anclote River. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide event occurred; on those days the daily extremes are used.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 3.36 ft Mar. 24, 1983; minimum, 1.30 ft below NGVD, Dec. 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.20 ft Mar. 29; minimum, 1.30 ft below NGVD, Dec. 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.95	-0.01	1.62	-0.05	.90	-0.53	1.22	.62	1.42	-0.72	1.08	.07
2	2.15	.17	1.50	-0.03	1.49	-0.42	1.61	.26	1.03	-0.81	1.37	.06
3	2.19	.27	1.57	-0.21	1.97	-0.21	1.73	.10	1.52	-0.36	1.51	-0.02
4	2.34	.47	1.91	-0.02	2.33	.04	1.86	.05	1.83	-0.01	1.15	-0.19
5	2.42	.47	2.23	.14	2.08	-0.29	1.92	.00	1.64	-0.33	1.62	-0.01
6	2.15	.42	2.18	-0.05	2.16	-0.02	1.89	-0.01	1.38	-0.68	1.80	.35
7	1.88	.03	1.98	-0.10	2.01	-0.65	1.90	.07	.27	-0.99	1.65	.30
8	1.90	-0.07	2.73	.56	1.46	-0.55	1.43	-0.31	.35	-1.17	.44	-0.89
9	1.93	-0.09	2.23	.13	1.14	-0.71	1.11	-0.37	1.02	-0.80	.88	-0.67
10	1.75	-0.15	2.29	.40	1.45	-0.42	2.19	.27	1.39	-0.53	1.15	-0.68
11	2.04	.19	2.22	.05	1.56	-0.10	1.47	.39	1.36	-0.61	.92	-0.71
12	2.21	.35	1.37	-0.33	1.97	.42	1.11	-0.10	1.70	-0.62	1.89	-0.75
13	2.17	.61	1.28	-0.13	1.20	-0.20	1.15	-0.12	2.00	-0.50	1.64	-0.35
14	1.58	.00	1.47	-0.12	1.74	.11	1.14	-0.32	1.02	-0.20	.90	-0.47
15	1.47	.10	1.66	.52	1.22	.07	1.59	-0.36	1.81	-0.43	1.54	-0.55
16	1.78	.26	1.82	.11	1.12	-0.61	1.02	-0.26	1.72	-0.43	1.68	-0.28
17	1.86	.19	1.47	-0.24	.69	-0.45	2.03	-0.09	1.94	-0.33	1.91	-0.04
18	1.60	.07	1.38	-0.34	1.01	-0.42	2.35	.08	1.71	-0.33	1.94	-0.16
19	1.66	.05	1.63	-0.23	1.80	-0.29	2.63	.07	1.65	-0.24	1.92	.04
20	1.77	.13	2.47	.51	1.78	-0.38	1.20	-0.54	1.52	-0.16	2.39	.41
21	1.62	-0.10	2.68	.00	1.79	-0.40	1.43	-0.53	1.70	-0.23	1.91	.48
22	1.53	-0.19	2.17	-0.21	1.95	-0.30	.14	-0.83	1.98	.01	1.56	-0.48
23	1.95	.14	2.07	-0.17	1.95	-0.30	1.28	-0.50	1.20	.14	1.40	-0.51
24	2.54	.48	2.50	.31	1.76	-0.22	1.78	.25	1.49	-0.40	1.55	-0.67
25	2.12	-0.12	2.58	-0.24	-0.31	-1.30	1.74	.37	1.10	-0.36	1.54	-0.42
26	1.75	-0.22	1.45	-0.34	.13	-1.11	1.80	.04	1.36	-0.64	1.50	-0.21
27	1.76	-0.51	1.77	.02	1.17	-0.49	1.66	.07	2.41	-0.24	1.92	-0.27
28	1.37	-0.49	2.13	.41	1.93	-0.08	1.53	-0.27	2.05	1.04	2.13	.41
29	1.61	-0.38	1.14	-0.15	1.90	.35	.65	-0.36	1.85	.44	3.20	.32
30	1.68	-0.23	1.10	-0.20	1.74	.37	1.34	-0.47	---	---	1.25	-0.60
31	1.76	-0.10	---	---	1.08	.79	1.66	-0.53	---	---	.38	-0.60
MEAN	1.89	.06	1.89	.00	1.49	-0.27	1.53	-0.11	1.50	-0.36	1.56	-0.23

AVAILABLE

02310050 ANCLOTE RIVER AT PERRINE ROAD NEAR ELFERS, FL

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.03	-0.56	1.71	-0.37	1.52	-0.93	2.18	.04	2.36	.58	1.93	-0.01
2	1.22	-0.40	1.97	.17	1.99	-0.74	2.06	-0.12	2.12	.99	1.78	-0.04
3	1.98	.51	2.49	-0.18	1.78	-0.41	1.81	-0.08	2.08	1.01	1.89	-0.02
4	2.37	-0.06	2.35	.22	1.70	-0.55	1.81	-0.19	2.07	.70	2.06	.09
5	1.86	.58	2.02	-0.03	1.75	-0.46	1.74	.56	1.99	.37	1.97	.38
6	1.49	-0.03	1.80	-0.34	1.73	-0.30	1.77	.43	1.92	.05	2.01	.10
7	1.40	-0.22	1.78	-0.45	1.50	-0.09	1.77	.22	1.83	-0.10	1.77	-0.17
8	1.80	-0.41	1.64	-0.38	1.64	-0.08	1.83	-0.04	1.90	-0.09	1.62	-0.14
9	2.25	-0.11	1.03	-0.25	1.76	.02	1.92	-0.09	1.86	-0.13	2.02	.33
10	1.88	.36	.97	-0.69	2.03	-0.08	2.04	-0.19	1.91	-0.07	2.08	.28
11	1.67	.03	1.05	-0.60	2.13	-0.19	2.06	-0.18	1.98	.48	2.01	.34
12	1.41	-0.14	1.55	-0.29	2.01	-0.26	2.23	.00	2.01	.03	1.85	.22
13	1.95	.20	1.50	-0.51	2.06	.23	2.29	.69	2.01	-0.01	1.78	.21
14	1.84	.27	1.57	-0.58	2.28	-0.25	2.29	-0.02	1.79	.16	1.74	.02
15	1.76	.17	1.64	-0.65	2.31	-0.10	2.15	.09	1.52	.08	2.01	.23
16	2.08	-0.14	1.54	-0.26	2.20	.09	2.15	.06	1.39	-0.02	1.93	.13
17	1.95	.31	1.40	-0.84	2.03	-0.03	2.08	.14	1.59	.10	1.89	-0.10
18	1.53	-0.11	1.63	-0.81	1.83	-0.04	1.92	.38	1.68	.29	1.91	.01
19	1.82	-0.48	1.75	-0.68	1.66	-0.03	1.42	.17	1.94	.48	1.65	-0.16
20	1.71	-0.35	1.88	-0.39	1.30	-0.01	1.36	.06	2.14	.44	1.85	-0.07
21	1.66	-0.35	1.60	-0.16	1.17	-0.05	1.40	.03	1.79	.00	1.90	-0.16
22	1.46	-0.34	1.50	-0.27	1.55	-0.02	1.57	.05	1.69	.08	2.07	-0.05
23	1.79	-0.26	1.21	-0.21	1.83	.28	1.74	-0.01	2.06	.39	2.06	.07
24	.96	.22	1.30	-0.23	1.84	.00	1.87	-0.05	2.27	.40	2.03	.12
25	1.03	-0.44	1.32	-0.17	1.86	.00	2.17	-0.01	2.26	.24	1.92	.07
26	1.08	-0.42	1.36	-0.35	1.97	-0.19	2.20	-0.11	2.06	.43	1.58	-0.11
27	1.48	-0.20	1.49	-0.14	1.97	-0.21	2.47	.63	2.12	-0.01	1.41	-0.45
28	1.62	-0.02	1.80	-0.14	2.21	-0.14	2.47	.23	2.07	.19	2.73	.60
29	1.43	-0.30	1.81	-0.40	2.31	.72	2.49	.20	1.93	.13	2.03	-0.09
30	1.76	-0.20	1.60	.08	2.51	-0.11	2.60	.47	1.73	.06	1.88	-0.08
31	---	---	1.26	-0.59	---	---	2.38	.55	1.90	.07	---	---
MEAN	1.64	-0.10	1.60	-0.34	1.88	-0.13	2.01	.13	1.93	.24	1.91	.05
YEAR	1.74	-0.09										

AVAILABLE

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310050 ANCLOTE RIVER AT PERRINE ROAD NEAR ELFERS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1982 to current year.
WATER TEMPERATURE: October 1982 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1982.

REMARKS.--Minimum and mean values for temperature and specific conductance are available in files of the Geological Survey. Interruptions in record were due to malfunction of the recording instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 21,600 microsiemens, July 25, 1983; minimum, 100 microsiemens, on many days in water years 1983 and 1984.
WATER TEMPERATURE: Maximum 32.0°C, July 17-19, 28, 1983; minimum, 9.0°C, Jan. 2, 1984.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 20,900 microsiemens, June 14; minimum, 100 microsiemens, on several days.
WATER TEMPERATURE: Maximum, 30.0°, June 21; minimum, 9.0°C, Jan. 2.

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 2, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	900	2900	100	300	100	400	1200	1900	1400	200	300
2	500	1000	4000	100	300	100	400	2800	6000	1400	100	300
3	500	1400	4800	100	300	100	400	6800	6000	500	100	300
4	600	2300	7000	100	300	200	400	5300	7100	300	100	300
5	800	3400	4600	200	300	200	300	4500	8600	300	100	300
6	800	3400	7100	200	300	200	200	5200	9500	200	200	200
7	800	3400	3100	200	400	200	200	7200	8500	200	200	200
8	900	8900	2300	200	400	200	200	7400	9900	200	200	200
9	1000	4400	1300	200	400	200	200	4400	12400	200	200	200
10	800	5800	2300	300	400	300	200	5300	14900	200	200	200
11	600	4500	3600	200	400	300	200	6100	16200	200	200	200
12	600	1500	1500	200	400	300	200	9000	16900	200	200	300
13	500	2500	400	200	600	400	200	9800	17500	300	200	300
14	500	3100	300	200	500	300	200	10700	20900	200	200	300
15	500	5000	300	200	400	300	200	12300	19900	200	200	300
16	400	4800	300	200	300	300	300	13100	19100	300	300	300
17	400	3000	300	200	300	300	300	15500	18000	300	200	400
18	400	3100	300	200	300	300	300	16000	17100	300	200	400
19	400	4500	200	200	300	300	300	17400	16200	300	200	600
20	400	9400	200	200	300	300	400	18300	15100	300	300	600
21	400	6400	200	200	300	300	400	17500	14000	300	200	600
22	500	3400	200	200	300	400	400	17900	15500	300	200	900
23	600	3800	300	200	300	400	400	10200	18300	300	100	1300
24	600	6100	300	200	300	400	500	9000	15200	400	100	1900
25	500	---	300	200	200	400	500	10900	13400	500	100	2200
26	500	---	300	200	300	400	500	10800	6400	400	200	1900
27	500	---	300	200	300	400	500	9600	600	400	200	2100
28	600	3200	400	200	200	400	600	700	1000	200	200	6000
29	600	1800	300	200	100	400	600	300	2200	200	200	700
30	800	1500	200	300	---	400	1000	500	3200	200	200	600
31	1000	---	100	300	---	400	---	1000	---	200	200	---
MAX	1000	9400	7100	300	600	400	1000	18300	20900	1400	300	6000

WTR YR 1984 MEAN 2380 MAX 20900 MIN 100

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310050 ANCLOTE RIVER AT PERRINE ROAD NEAR ELFERS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.5	22.5	19.0	9.5	15.0	12.5	19.5	26.5	25.0	27.5	26.0	26.5
2	24.5	22.5	19.5	9.0	14.5	12.5	19.5	27.0	25.5	28.0	25.5	27.0
3	25.0	23.0	20.5	10.5	14.0	14.5	20.5	27.5	26.0	26.0	26.5	26.5
4	25.5	23.0	21.5	10.5	15.5	16.5	20.5	27.0	27.0	26.0	26.5	26.5
5	26.0	23.0	22.0	11.0	16.0	19.0	21.0	27.5	27.5	24.5	27.0	26.5
6	26.0	22.5	23.0	12.0	16.0	20.5	19.5	28.5	28.0	25.0	27.5	25.0
7	26.0	22.0	22.5	12.0	15.0	20.5	19.5	29.0	28.0	25.5	27.5	25.0
8	26.5	22.0	20.0	12.5	14.0	20.0	19.5	28.5	28.0	26.5	27.0	25.0
9	26.5	22.0	18.5	12.5	14.0	17.5	19.5	27.5	28.5	27.0	27.0	25.0
10	25.5	22.5	19.0	14.0	14.5	17.5	21.5	26.5	29.0	27.0	27.0	25.0
11	25.5	22.5	20.0	15.0	16.0	17.5	21.5	27.0	29.0	26.0	26.5	25.5
12	25.0	21.0	19.5	14.5	16.5	17.5	22.0	27.5	29.5	26.0	26.5	26.5
13	25.0	20.5	19.0	12.5	18.0	19.0	21.5	28.0	29.5	26.5	27.0	26.5
14	24.5	20.5	18.0	12.5	19.5	20.5	21.5	28.5	29.5	25.5	27.0	26.5
15	24.5	20.5	17.0	13.0	19.0	21.5	21.0	28.5	29.5	25.5	27.5	27.0
16	24.5	20.5	16.5	14.0	18.5	21.5	22.0	28.5	29.0	26.5	27.5	27.5
17	25.0	19.5	16.0	15.0	19.0	21.0	20.0	27.5	29.0	26.5	26.0	27.0
18	25.0	18.5	17.0	17.5	19.5	21.0	20.5	27.0	28.5	27.0	26.5	27.0
19	25.0	18.5	18.0	18.0	20.0	21.0	20.0	27.5	29.0	26.0	26.0	26.0
20	25.0	19.0	18.0	17.5	20.5	21.0	21.0	27.5	29.0	25.5	26.0	25.5
21	25.0	19.0	18.5	14.0	20.5	20.5	21.5	27.5	30.0	25.5	26.0	26.0
22	25.5	19.0	19.0	12.0	20.5	20.5	23.0	27.0	29.5	26.0	25.0	26.5
23	25.5	20.0	19.0	13.5	20.5	19.0	22.0	27.5	29.5	26.0	25.0	27.0
24	25.5	20.5	19.0	16.0	19.0	19.5	23.0	28.0	29.5	26.0	25.5	27.0
25	24.5	---	17.5	18.5	18.0	19.5	23.5	28.5	29.0	26.5	26.0	27.0
26	24.0	---	13.0	19.5	17.5	19.5	24.0	28.0	28.0	26.0	26.5	27.0
27	23.0	---	9.5	20.0	18.0	21.0	25.0	27.5	27.5	25.0	26.5	26.5
28	22.0	20.5	11.0	19.5	18.5	22.0	25.5	25.0	27.0	25.5	25.5	26.0
29	22.0	20.0	16.0	19.0	15.5	22.0	25.5	24.5	27.0	25.5	25.5	25.5
30	22.0	19.0	16.0	16.5	---	21.5	26.5	24.5	27.5	25.0	26.0	25.5
31	22.5	---	12.0	15.5	---	21.0	---	24.5	---	25.5	27.0	---
MAX	26.5	23.0	23.0	20.0	20.5	22.0	26.5	29.0	30.0	28.0	27.5	27.5

WTR YR 1984 MEAN 22.5 MAX 30.0 MIN 9.0

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310240 JUMPING GULLY AT LOYCE, FL

LOCATION.--Lat 28°23'06", long 82°29'22", in NE¼ sec.22, T.24 S., R.18 E., Pasco County, Hydrologic Unit 03100207, at center of span on upstream side of bridge on U. S. Highway 41, 100 ft downstream from concrete control structure at outlet of Pasco Lake, 0.3 mi north of Loyce, 2.7 mi upstream from mouth, and 4.4 mi southwest of Masaryktown.

DRAINAGE AREA.--43 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 60.00 ft National Geodetic Vertical Datum of 1929. Prior to Feb. 11, 1970, nonrecording gage at same site at datum 60.0 ft lower.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--20 years, 7.36 ft^3/s, 2.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft^3/s Sept. 18, 1964, gage height, 6.80 ft, present datum, from rating curve extended above 260 ft^3/s; no flow for many days in most years; gully dry at gage for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft^3/s Aug. 1, gage height, 4.78 ft; no flow for many days; gully dry at gage many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	6.0	3.3	19	9.7	20	4.0	.17	.00	16	72	21
2	18	5.4	3.0	19	9.0	20	3.5	.16	.00	19	73	19
3	16	5.0	2.8	20	8.6	19	3.2	.16	.00	38	65	18
4	14	4.8	2.8	20	8.4	19	6.0	.14	.00	37	60	16
5	12	5.0	3.0	20	7.8	19	5.6	.14	.00	33	55	16
6	10	4.7	2.8	19	7.0	18	4.8	.13	.00	31	53	17
7	9.1	4.7	2.8	19	6.3	18	4.4	.11	.00	31	50	16
8	8.7	5.4	3.0	18	5.9	15	4.0	.09	.00	28	44	15
9	9.2	6.4	3.1	17	5.3	14	4.7	.10	.00	29	39	14
10	9.4	6.2	3.1	20	4.9	13	4.9	.09	.00	35	34	13
11	10	6.0	4.3	20	4.7	12	4.5	.07	.00	28	32	12
12	12	5.6	5.8	19	4.5	11	4.0	.06	.00	26	29	11
13	11	5.3	5.4	21	10	16	3.7	.06	.00	28	25	9.9
14	11	5.1	5.3	20	13	15	3.4	.05	.15	31	26	9.1
15	13	5.0	6.6	19	12	13	3.4	.02	.00	28	29	8.1
16	15	4.9	6.6	19	11	11	3.4	.00	.00	25	26	7.5
17	14	4.4	7.3	18	10	10	2.9	.00	.00	23	25	6.6
18	14	4.0	8.1	19	9.9	9.5	2.5	.00	.00	22	23	7.2
19	14	3.7	8.1	21	9.5	8.5	2.2	.00	.00	21	22	12
20	13	4.8	8.2	20	9.1	8.0	1.8	.00	.00	21	25	11
21	13	5.4	8.1	20	9.1	8.3	1.4	.00	.00	21	41	9.5
22	12	4.8	7.7	19	10	7.2	1.3	.00	.00	20	43	8.8
23	12	4.7	7.7	18	10	6.9	1.0	.00	.82	18	36	8.0
24	11	4.8	7.3	18	9.7	6.5	.85	.00	8.1	17	34	7.3
25	9.9	4.6	6.5	17	8.9	6.1	.61	.00	14	17	32	6.7
26	9.1	4.1	6.4	16	8.3	5.8	.43	.00	16	16	30	6.2
27	8.3	4.0	6.2	15	14	7.5	.31	.00	16	16	29	6.5
28	7.7	3.9	6.4	14	21	6.6	.27	.00	15	14	26	15
29	7.3	4.0	15	13	20	5.5	.24	.00	17	13	25	13
30	6.9	3.6	19	12	---	5.0	.19	.00	18	23	24	12
31	6.5	---	18	10	---	4.6	---	.00	---	41	22	---
TOTAL	357.1	146.3	203.7	559	277.6	359.0	83.50	1.55	105.07	766	1149	352.4
MEAN	11.5	4.88	6.57	18.0	9.57	11.6	2.78	.050	3.50	24.7	37.1	11.7
MAX	20	6.4	19	21	21	20	6.0	.17	18	41	73	21
MIN	6.5	3.6	2.8	10	4.5	4.6	.19	.00	.00	13	22	6.2
CFSM	.27	.11	.15	.42	.22	.27	.07	.001	.08	.57	.86	.27
IN.	.31	.13	.18	.48	.24	.31	.07	.00	.09	.66	.99	.30

CAL YR 1983 TOTAL 2654.79 MEAN 7.27 MAX 63 MIN .00 CFSM .17 IN 2.30
WTR YR 1984 TOTAL 4360.22 MEAN 11.9 MAX 73 MIN .00 CFSM .28 IN 3.77

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310240 JUMPING GULLY AT LOYCE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17...	1230	3.66	--	41	7.4	27.0	4.9	20
NOV								
01...	0929	3.32	6.1	46	6.8	23.0	6.3	--
JAN								
03...	1148	3.62	19	45	7.6	11.0	10.4	--
MAR								
01...	0915	3.61	21	45	7.2	13.5	10.2	--
APR								
30...	0830	2.94	.20	58	7.3	26.0	6.5	--
JUL								
05...	0917	4.15	34	65	6.8	27.0	4.8	--
AUG								
27...	0915	4.21	29	41	6.5	28.5	7.5	--
SEP								
10...	0933	3.70	14	--	--	--	--	--
11...	1033	3.66	12	--	--	--	--	--

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL

LOCATION.--Lat 28°19'44", long 82°32'13", in NE¼ sec.7, T.25 S., R.18 E., Pasco County, Hydrologic Unit 03100207, at bridge on State Highway 52, 1.2 mi west of Fivay Junction, 3.5 mi above Fivemile Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--150 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1964 to October 1966 (discharge measurements and crest-stage partial records); November 1966 to September 1972 (discharge measurements only); October 1972 to September 1978 (gage heights and periodic discharge measurements only); October 1978 to September 1983 (discharge measurements only); October 1983 to September 1984.
TEMPERATURE OBSERVATIONS: October 1977 to current year. See REMARKS.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Feb. 12, 1968, nonrecording gage 20 ft downstream and Feb. 12, 1968, to Oct. 4, 1972, nonrecording gage at present site, at datum 40.00 ft higher; Oct. 5, 1972, to Oct. 17, 1978, water-stage recorder at present site and datum; Oct. 18, 1978, to Sept. 30, 1979, nonrecording gage at present site at datum 40.00 ft higher.

REMARKS.--Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD (corrected).--Maximum discharge, 286 ft³/s Sept. 11, 1964, gage height, 53.90 ft, present datum; no flow observed most years; minimum gage height, 49.94 ft May 28, 1977, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s June 23, gage height, 52.88 ft; minimum, 0.02 ft³/s June 11, gage height, 50.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.4	7.0	34	12	35	9.4	2.2	1.0	25	54	10
2	9.5	4.9	6.6	29	11	32	8.5	2.0	.74	25	51	8.8
3	9.2	4.5	6.6	26	10	29	7.8	1.6	.57	31	47	7.4
4	7.9	4.0	7.0	27	10	26	15	1.5	.44	30	43	6.7
5	6.7	5.5	6.6	25	10	23	20	1.3	.31	27	36	9.1
6	6.0	9.3	7.0	23	9.5	21	18	1.0	.19	23	30	9.9
7	5.3	8.2	7.0	21	8.6	20	17	.76	.14	20	27	8.7
8	4.9	9.3	12	20	7.9	17	17	.64	.10	17	23	8.4
9	5.8	12	20	19	7.2	16	18	6.9	.07	15	20	8.5
10	7.7	10	18	22	6.9	14	20	6.1	.03	16	17	8.4
11	8.0	8.5	17	25	6.6	13	19	3.2	.02	15	16	8.0
12	8.2	7.0	17	23	6.1	12	17	2.2	.30	17	14	7.2
13	8.2	6.1	18	24	13	18	16	1.6	.28	21	12	6.8
14	9.3	5.2	19	23	23	17	16	1.3	1.7	26	15	6.1
15	15	4.6	21	22	20	16	15	.92	9.0	25	30	5.4
16	27	4.7	26	21	18	15	15	.72	5.2	22	21	4.7
17	22	4.2	27	20	17	13	14	.56	3.2	19	24	4.1
18	21	4.1	26	20	16	12	12	.44	2.7	17	23	8.9
19	19	24	25	26	14	11	11	.33	2.1	15	23	24
20	17	21	23	24	13	10	9.8	.27	1.5	14	24	15
21	16	16	21	23	13	12	8.8	.22	1.2	14	35	11
22	15	13	19	21	15	11	7.6	.30	.85	12	42	8.3
23	13	11	17	20	17	11	7.0	3.0	43	12	39	6.6
24	13	9.6	16	20	16	10	6.4	2.7	52	9.7	35	5.4
25	11	8.6	14	19	15	10	5.3	2.1	41	8.4	31	4.3
26	9.8	7.8	13	18	14	9.8	4.7	2.0	36	9.0	27	3.6
27	8.5	7.0	19	17	22	15	4.0	2.5	28	15	24	3.8
28	7.2	7.8	27	16	40	14	3.4	3.2	22	13	19	16
29	6.7	7.3	40	15	36	13	3.0	2.3	23	12	16	14
30	6.2	7.0	43	14	---	11	2.6	1.8	28	17	13	11
31	5.8	---	38	13	---	10	---	1.4	---	29	11	---
TOTAL	340.9	257.6	583.8	670	427.8	496.8	348.3	57.06	304.64	571.1	842	260.1
MEAN	11.0	8.59	18.8	21.6	14.8	16.0	11.6	1.84	10.2	18.4	27.2	8.67
MAX	27	24	43	34	40	35	20	6.9	52	31	54	24
MIN	4.9	4.0	6.6	13	6.1	9.8	2.6	.22	.02	8.4	11	3.6
AC-FT	676	511	1160	1330	849	985	691	113	604	1130	1670	516

WTR YR 1984 TOTAL 5160.10 MEAN 14.1 MAX 54 MIN .02 AC-FT 10240

NOTE.--No gage height record Nov. 20 to Jan. 3.

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966-68, 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT											
17...	1255	52.12	22	82	77	6.9	7.0	24.5	140	4.5	9.3
NOV											
01...	1439	51.59	5.2	85	--	6.9	--	25.0	--	4.6	--
JAN											
04...	1007	52.23	27	60	--	7.1	--	8.0	--	8.2	--
MAR											
05...	1100	52.15	23	65	--	7.5	--	17.5	--	4.7	--
APR											
30...	1245	51.36	2.8	95	--	7.3	--	22.0	--	5.6	--
MAY											
17...	1437	51.06	.50	--	--	--	--	--	--	--	--
23...	1100	51.44	3.3	143	136	7.2	6.4	22.0	60	5.4	17
JUL											
09...	1015	51.93	17	98	--	7.3	--	24.0	--	3.2	--
AUG											
31...	0845	51.84	12	75	--	7.1	--	24.0	--	3.2	--
SEP											
11...	0913	51.72	8.0	--	--	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
17...	1.3	3.6	1.5	3.4	7.0	.10	3.9	75	--	--	--
NOV											
01...	--	--	--	--	--	--	--	--	.010	.03	.010
JAN											
04...	--	--	--	--	--	--	--	--	.010	<.02	.010
MAR											
05...	--	--	--	--	--	--	--	--	<.010	<.02	.020
APR											
30...	--	--	--	--	--	--	--	--	<.010	.12	.050
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
23...	2.5	5.4	1.3	29	9.3	.20	3.6	103	--	--	--
JUL											
09...	--	--	--	--	--	--	--	--	.010	.02	.010
AUG											
31...	--	--	--	--	--	--	--	--	.010	.02	.030
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
17...	--	--	--	110	1	<1	7	520	200	320	2
NOV											
01...	.84	.040	.040	--	--	--	--	--	--	--	--
JAN											
04...	.54	.030	.010	--	--	--	--	--	--	--	--
MAR											
05...	.52	.020	.010	--	--	--	--	--	--	--	--
APR											
30...	.72	<.020	<.010	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	.77	.060	.040	--	--	--	--	--	--	--	--
AUG											
31...	.73	.100	.100	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT											
17...	0	2	10	1	9	<.1	<1	80	27	22	18
MAY											
23...	--	--	--	--	--	--	--	90	--	14	18

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°15'23", long 82°38'33", in NW¼ sec.6, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank on upstream side of bridge on private road, 4.9 mi east of New Port Richey, and 10.5 mi upstream from mouth. Prior to May 27, 1981, at site 1.1 mi downstream.

DRAINAGE AREA.--180 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1963 to current year. March 1963 to May 1981, at site 1.1 mi downstream not equivalent due to differences in base flow characteristics of the different drainage areas.

REVISED RECORDS.--WRD FL 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark). Prior to May 27, 1981, at site 1.1 mi downstream at datum 7.06 ft higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--21 years (1963-84), 31.5 ft³/s, 2.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1963-84: Maximum discharge, 1,410 ft³/s Sept. 11, 1964, gage height, 11.91 ft site and datum then in use; minimum, 0.01 ft³/s May 20, 21, 22, 1984; minimum gage height, 1.23 ft June 28, 29, 30, 1977, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 24	1900	252	21.74	Aug. 2	0100	*396	*22.15
July 5	0400	261	21.77				

Minimum discharge, 0.01 ft³/s May 20, 21, 22, gage height, 17.47 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	8.3	13	124	30	119	17	2.7	2.6	79	262	35
2	25	7.3	13	105	27	98	15	2.3	2.1	77	357	30
3	22	6.6	12	92	26	85	13	1.9	1.6	85	249	27
4	19	6.1	11	80	25	75	36	1.6	1.2	112	186	21
5	18	6.0	11	70	23	67	50	1.4	.89	234	147	37
6	16	6.8	11	62	21	59	52	1.1	.52	202	120	50
7	14	7.9	12	56	19	54	47	.71	.28	149	99	58
8	12	9.9	11	52	18	48	40	.45	.18	118	84	50
9	11	15	11	47	17	43	40	1.2	.12	93	76	38
10	13	13	12	52	16	38	45	2.5	.07	75	65	31
11	18	12	12	65	15	34	43	3.5	.13	67	56	25
12	19	12	34	71	15	31	40	3.7	.68	97	49	21
13	20	12	32	71	30	41	35	3.2	.42	140	44	18
14	22	10	34	69	48	39	31	2.3	.46	153	40	16
15	26	9.2	39	66	59	37	29	1.5	4.6	114	39	13
16	27	11	42	62	54	34	29	.85	24	107	34	11
17	33	9.4	48	58	49	31	25	.41	21	96	52	9.1
18	43	8.3	60	55	43	27	21	.18	17	79	54	7.6
19	43	7.3	61	63	39	23	19	.05	15	64	54	7.3
20	38	10	55	66	37	21	16	.02	13	58	58	8.6
21	33	17	51	68	35	25	13	.02	8.0	55	71	12
22	29	17	46	65	50	23	11	1.2	5.3	55	91	19
23	26	16	42	60	61	23	9.3	5.1	60	63	128	16
24	24	15	38	55	58	22	8.3	5.0	198	49	113	11
25	22	15	34	51	52	21	7.2	4.3	203	44	94	7.9
26	19	14	30	49	46	20	6.3	4.7	150	60	80	6.0
27	17	13	27	47	58	28	5.5	7.9	137	146	72	4.9
28	14	12	26	44	114	27	4.6	7.1	118	110	71	19
29	12	13	60	40	136	24	3.9	5.5	91	90	61	20
30	11	14	118	36	---	22	3.3	4.4	79	86	51	21
31	9.5	---	137	33	---	19	---	3.2	---	140	42	---
TOTAL	684.5	334.1	1143	1934	1221	1258	715.4	79.99	1155.15	3097	2999	650.4
MEAN	22.1	11.1	36.9	62.4	42.1	40.6	23.8	2.58	38.5	99.9	96.7	21.7
MAX	43	17	137	124	136	119	52	7.9	203	234	357	58
MIN	9.5	6.0	11	33	15	19	3.3	.02	.07	44	34	4.9
CFSM	.12	.06	.20	.34	.23	.22	.13	.01	.21	.55	.53	.12
IN.	.14	.07	.23	.40	.25	.26	.15	.02	.24	.63	.61	.13

CAL YR 1983 TOTAL 14795.62 MEAN 40.5 MAX 220 MIN .00 CFSM .22 IN 3.02
WTR YR 1984 TOTAL 15271.54 MEAN 41.7 MAX 357 MIN .02 CFSM .23 IN 3.12

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-66, 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT											
17...	1013	20.45	51	120	124	6.5	7.4	24.0	70	4.3	18
NOV											
03...	0920	18.72	6.7	125	--	6.6	--	24.0	--	4.4	--
JAN											
04...	1445	20.70	80	95	--	7.2	--	8.5	--	8.5	--
MAR											
05...	0807	20.59	66	95	--	7.8	--	17.0	--	6.6	--
MAY											
01...	1000	18.14	2.7	170	--	7.3	--	21.5	--	5.8	--
14...	1042	17.96	1.2	--	--	--	--	--	--	--	--
23...	1230	17.61	.10	285	276	7.4	7.1	22.0	60	6.0	47
JUL											
09...	1048	19.72	22	95	--	--	--	24.0	--	3.3	--
AUG											
31...	0804	19.90	33	135	--	7.0	--	24.0	--	5.6	--
SEP											
10...	1145	20.68	83	--	--	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT											
17...	1.8	5.0	1.9	.6	9.2	.20	5.7	109	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	<.010	.02	.010
JAN											
04...	--	--	--	--	--	--	--	--	.010	<.02	.010
MAR											
05...	--	--	--	--	--	--	--	--	<.010	<.02	.020
MAY											
01...	--	--	--	--	--	--	--	--	<.010	.12	.080
14...	--	--	--	--	--	--	--	--	--	--	--
23...	4.0	5.6	1.0	43	10	.10	5.8	183	--	--	--
JUL											
09...	--	--	--	--	--	--	--	--	.010	.02	.010
AUG											
31...	--	--	--	--	--	--	--	--	.010	.10	.140
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
17...	--	--	--	170	1	1	10	580	190	390	1
NOV											
03...	.88	.040	.040	--	--	--	--	--	--	--	--
JAN											
04...	.61	.080	.060	--	--	--	--	--	--	--	--
MAR											
05...	.65	.050	.040	--	--	--	--	--	--	--	--
MAY											
01...	.67	.080	.060	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	.90	.060	.040	--	--	--	--	--	--	--	--
AUG											
31...	.78	.150	.100	--	--	--	--	--	--	--	--
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT 17...	0	1	10	3	7	<.1	1	90	19	32	41

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310304 PITHLACHASCOTEE RIVER AT ROWAN ROAD NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°14'14", long 82°41'48", in SW¼ sec.10, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 125 ft downstream from bridge on County Road 77, 1.8 mi southeast of New Port Richey, and 6.7 mi upstream from mouth.

ELEVATION RECORDS

PERIOD OF RECORD.--October 1982 to current year (maximum and minimum elevations only).

GAGE.--Water-stage recorder. Datum of gage is 3.29 ft below National Geodetic Vertical Datum of 1929 (Pasco County bench mark); gage readings have been reduced to elevations NGVD.

REMARKS.--Gage records tidal fluctuations in Pithlachascotee River; elevations affected by flow from Pithlachascotee River. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide occurred; on those days the daily extremes are used.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4.78 ft Mar. 24, 1983; minimum, 2.18 ft below NGVD, May 16, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.26 ft Mar. 29; minimum, 2.18 ft below NGVD, May 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.31	-0.66	2.22	-0.95	2.04	-1.26	1.83	.45	.42	-1.54	1.20	.46
2	2.80	-0.62	2.09	-0.72	2.68	-1.36	1.25	.15	1.85	-1.61	2.03	.16
3	2.93	-0.66	2.35	-1.08	2.13	-1.36	2.35	-0.11	2.30	-1.26	2.22	-0.12
4	3.25	-0.62	2.71	-1.14	3.17	-1.27	2.55	-0.31	2.57	-0.90	1.86	-0.35
5	3.51	-0.55	3.25	-1.04	2.84	-1.47	2.73	-0.49	2.41	-1.21	2.42	-0.31
6	3.10	-0.50	2.95	-1.29	3.01	-1.13	2.57	-0.54	2.48	-1.42	2.39	.05
7	2.79	-0.99	2.75	-1.22	2.85	-1.59	2.46	-0.47	1.03	-1.46	2.30	-0.08
8	2.83	-1.12	3.69	-0.63	1.88	-1.34	1.80	-0.80	1.05	-1.53	1.00	-0.89
9	2.73	-1.11	2.83	-0.72	1.52	-1.57	1.53	-0.80	1.54	-1.46	1.25	-0.90
10	2.33	-1.06	2.93	-0.40	1.65	-1.14	2.94	.21	1.94	-1.02	1.50	-1.03
11	2.76	-0.60	2.85	-0.23	2.13	-0.54	2.02	.26	1.75	-1.30	1.17	-1.17
12	2.63	-0.24	1.59	-0.70	2.39	.19	1.47	-0.30	2.14	-1.39	2.27	-1.28
13	2.51	-0.10	1.59	-0.34	1.45	-0.39	1.50	-0.20	2.51	-1.47	2.32	-1.26
14	1.70	-0.41	1.97	-0.19	2.55	-0.29	1.46	-0.54	2.31	-0.99	2.05	-1.19
15	1.64	-0.03	2.45	.39	1.54	-0.32	2.09	-0.73	2.45	-1.03	2.40	-1.36
16	2.14	-0.07	1.98	-0.16	1.63	-1.15	2.72	-0.77	2.01	-0.99	2.30	-1.21
17	2.33	-0.44	1.96	-0.97	2.79	-1.04	3.10	-0.85	2.88	-1.07	2.82	-1.14
18	2.23	-0.32	2.34	-1.14	2.34	-0.80	1.99	-0.87	2.72	-1.14	2.92	-1.02
19	2.32	-0.17	2.16	-1.14	2.29	-0.82	3.71	-0.56	2.57	-1.13	2.94	-1.03
20	2.53	-0.22	3.87	-0.57	1.40	-0.96	1.55	-0.87	2.41	-0.96	3.43	-0.30
21	2.32	-0.76	1.86	-1.27	2.43	-1.08	2.23	-0.80	2.54	-0.50	2.55	-1.22
22	2.31	-0.89	2.92	-1.34	2.84	-1.11	1.06	-0.90	2.70	-0.96	2.23	.08
23	2.76	-0.74	2.84	-1.29	2.69	-1.12	2.04	-0.70	1.68	-0.23	1.97	-1.22
24	3.44	-0.70	3.34	-0.74	2.74	-0.73	2.33	-0.09	1.96	-0.50	1.86	-1.23
25	2.92	-1.11	3.12	-1.33	.21	-1.55	2.25	-0.06	1.49	-0.52	1.74	-0.92
26	2.28	-1.10	1.66	-0.86	.62	-1.30	2.35	-0.54	1.66	-0.99	2.22	-0.47
27	2.23	-1.41	2.23	-0.39	1.76	-0.62	2.10	-0.33	2.99	-0.88	2.56	-0.54
28	1.77	-1.14	2.41	-0.14	2.43	-0.48	1.90	-0.89	2.89	1.02	2.70	-0.09
29	1.89	-1.06	1.46	-0.68	2.26	-0.47	1.72	-1.02	1.72	.57	4.26	.15
30	2.05	-0.94	1.47	-0.76	1.09	-0.03	2.31	-1.17	---	---	1.60	-1.28
31	2.51	-1.00	---	---	1.24	.40	1.89	-1.44	---	---	1.28	-1.24
MEAN	2.51	-0.69	2.46	-0.77	2.08	-0.89	2.12	-0.52	2.10	-0.96	2.19	-0.71

02310304 PITHLACHASCOTEE RIVER AT ROWAN ROAD NEAR NEW PORT RICHEY, FL

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.84	-1.20	2.53	-1.54	2.25	-1.84	3.09	-0.42	3.62	.99	2.57	-0.54
2	2.01	-1.31	2.82	-1.37	2.74	-0.06	2.92	-0.40	4.04	2.36	2.28	-0.48
3	2.63	-0.83	3.29	-0.72	2.42	-1.58	2.59	-0.38	3.62	2.60	2.42	-0.33
4	3.13	.05	2.93	-1.07	2.28	-1.62	2.52	.03	3.24	1.86	2.39	-0.34
5	2.53	-0.57	2.63	.46	2.24	-1.43	3.30	.93	2.77	1.29	2.48	-0.42
6	1.90	.14	2.35	-1.38	2.19	-1.31	3.16	2.10	2.59	.73	2.49	-0.53
7	1.82	-0.74	2.20	-1.38	2.01	-0.91	2.84	1.14	2.51	.26	2.34	-0.49
8	2.38	-0.97	2.17	-1.28	2.25	-0.70	2.61	.52	2.56	.00	2.15	-0.52
9	2.50	-0.81	1.38	-0.72	2.64	-0.77	2.74	.08	2.51	-0.20	2.84	-0.16
10	2.16	-0.65	1.45	-1.55	2.74	-1.08	2.77	-0.39	2.53	-0.35	2.77	-0.47
11	2.03	-1.02	1.85	-1.46	3.00	-1.26	2.65	-0.50	2.71	-0.42	2.80	-0.34
12	2.61	-1.14	2.38	-1.15	2.92	-1.53	3.02	.01	2.70	-0.63	2.69	-0.46
13	2.57	-0.82	2.44	-1.56	3.05	-1.51	3.45	.71	2.86	-0.52	2.49	-0.57
14	2.63	-0.72	2.43	-1.74	3.19	-1.21	3.39	1.00	2.48	-0.53	2.40	-0.75
15	2.77	-0.83	2.40	-1.88	3.13	-1.17	3.16	.41	2.20	-0.43	2.47	-0.55
16	3.33	-1.23	2.39	-2.18	3.02	-1.01	2.96	.38	1.93	-0.39	2.66	-0.70
17	2.61	-1.14	2.30	-2.05	2.96	-0.98	2.86	.80	2.05	-0.20	2.31	-1.00
18	2.15	-1.45	2.32	-0.11	2.50	.32	2.65	.62	2.18	.06	2.56	-0.69
19	2.38	-1.37	2.46	-1.89	2.21	-0.74	1.99	.15	2.51	.22	1.70	-0.69
20	2.33	-0.04	2.41	-1.34	1.68	-0.60	2.04	.05	2.77	.48	2.15	-0.70
21	1.98	-1.14	2.08	-0.88	1.60	-0.38	1.98	.19	2.43	-0.07	2.18	-1.03
22	1.60	-1.00	1.79	-0.72	2.10	-0.24	2.01	-0.02	2.16	-0.12	2.70	-1.03
23	2.09	-0.57	1.52	-0.77	2.58	-0.02	2.22	.19	2.66	.61	2.74	-1.00
24	1.19	.05	1.60	-0.53	2.46	.72	2.36	-0.02	2.99	.46	2.84	-0.93
25	1.30	-0.97	1.67	-0.42	3.11	1.74	2.79	-0.54	3.15	.07	2.72	-0.80
26	1.86	-1.15	1.91	-1.05	3.01	.92	2.92	-0.42	2.98	-0.28	2.25	-1.00
27	2.29	-0.71	2.06	-1.01	2.87	.49	3.42	1.13	3.09	-0.24	2.06	-1.40
28	2.37	-0.85	2.49	-0.90	3.12	.19	3.57	.53	3.04	-0.17	3.52	.21
29	2.14	-1.19	2.46	-1.38	3.23	-0.24	3.56	.57	2.90	-0.10	2.62	-0.94
30	2.56	-1.29	2.41	-1.64	3.41	-0.44	3.51	.30	2.45	-0.36	2.28	-0.85
31	---	---	1.89	-2.00	---	---	3.37	.79	2.60	-0.47	---	---
MEAN	2.26	-0.85	2.23	-1.20	2.63	-0.61	2.85	.31	2.74	.21	2.50	-0.65
YEAR	2.39	-0.61										

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310304 PITHLACHASCOTEE RIVER AT ROWAN ROAD NEAR NEW PORT RICHEY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1982 to current year.
WATER TEMPERATURE: October 1982 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1982.

REMARKS.--Minimum and mean values for temperature and specific conductance are available in files of the Geological Survey. Interruptions in record were due to malfunction of the recording instruments. Extremes may have been exceeded during periods of missing record.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, June 15, 1984; minimum, 89 microsiemens, Sept. 5, 1983.
WATER TEMPERATURE: Maximum, 27.0°C on several days in July, August, and September 1983; minimum, 10.5°C, Dec. 27, 1983, Jan. 1, 2, 1984.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, June 15; minimum, 90 microsiemens, July 6, 7.
WATER TEMPERATURE: Maximum, 26.5°C Aug. 7; minimum, 10.5°C Dec. 27, Jan. 1, 2.

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 2, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	300	---	---	---	---	220	360	---	140	---	---
2	210	310	---	---	---	---	230	400	---	140	---	---
3	240	310	---	---	---	---	230	520	---	140	---	---
4	230	320	---	---	---	---	250	430	---	140	---	---
5	250	330	---	---	---	---	160	430	---	110	---	---
6	250	340	---	---	---	---	130	450	---	90	---	---
7	260	330	---	---	---	---	130	460	---	90	---	140
8	270	320	---	---	---	---	130	480	---	110	---	150
9	270	310	---	---	---	153	140	480	---	120	---	170
10	290	260	---	---	---	---	150	490	---	150	---	190
11	280	270	---	152	---	---	140	470	---	190	---	200
12	250	290	---	---	---	---	140	450	820	190	---	210
13	250	290	---	---	---	---	150	460	1030	130	---	300
14	240	300	---	---	---	---	160	460	1330	110	---	390
15	240	300	---	---	164	---	170	460	1380	110	---	250
16	---	290	192	---	---	---	170	580	490	110	---	270
17	---	300	---	---	---	---	190	660	270	120	170	280
18	---	320	---	---	---	---	200	620	260	120	180	300
19	190	300	---	---	---	---	200	660	280	140	210	310
20	190	360	---	---	---	---	210	620	300	160	---	310
21	200	---	---	---	---	---	220	590	330	170	---	310
22	210	---	---	---	---	180	230	610	370	200	---	300
23	210	---	---	---	---	190	250	660	450	---	---	240
24	220	---	---	---	---	190	270	700	580	---	---	250
25	230	---	---	---	---	190	280	740	410	---	---	280
26	250	---	---	---	---	200	310	760	150	---	---	300
27	250	---	---	---	---	200	310	410	160	---	---	330
28	280	---	---	---	---	170	310	430	110	---	---	320
29	290	---	---	---	---	180	320	470	130	---	---	300
30	290	---	---	---	---	200	340	---	140	---	---	260
31	300	---	---	---	---	210	---	---	---	---	---	---
MAX	300	360	192	152	164	210	340	760	1380	200	210	390

WTR YR 1984 MEAN 297 MAX 1380 MIN 90

AVAILABLE

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310304 PITHLACHASCOTEE RIVER AT ROWAN ROAD NEAR NEW PORT RICHEY, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	22.0	19.0	10.5	14.5	12.5	17.5	23.0	21.5	25.0	25.0	25.0
2	23.5	22.0	19.5	10.5	14.0	12.0	18.0	23.0	21.5	25.0	25.5	25.0
3	24.5	22.0	20.5	11.5	15.0	13.5	19.0	23.5	22.0	24.5	25.5	25.0
4	24.5	22.0	22.0	11.5	16.5	15.0	20.0	23.5	22.5	23.5	26.0	25.0
5	24.5	21.5	23.0	11.5	16.5	17.5	19.5	24.5	23.5	23.5	26.0	25.0
6	24.0	21.5	23.0	12.5	16.0	19.5	18.5	24.5	24.0	24.0	26.0	24.0
7	24.0	20.5	23.0	13.0	14.5	20.0	17.5	24.5	24.0	24.5	26.5	23.5
8	24.0	21.0	20.0	13.5	13.0	18.0	18.0	25.0	24.0	25.0	26.0	23.5
9	24.0	21.5	18.0	13.0	14.0	15.0	19.5	24.5	24.0	25.5	25.5	24.0
10	24.5	21.5	18.5	15.5	15.5	---	20.5	23.0	24.5	25.5	26.0	24.0
11	24.5	21.5	19.5	16.0	17.0	---	20.0	22.0	24.5	25.0	25.5	24.5
12	24.5	21.0	20.0	13.5	18.0	---	19.5	22.0	25.0	24.5	25.5	24.5
13	24.5	19.5	19.5	12.5	18.5	---	20.5	22.5	25.0	24.0	25.5	24.5
14	24.5	19.0	18.0	12.5	18.5	---	21.0	23.0	25.5	24.5	25.5	24.5
15	24.0	19.0	18.0	12.5	18.0	---	21.0	23.5	25.0	24.5	25.5	25.0
16	---	19.5	17.5	14.0	17.0	---	20.0	23.5	24.0	24.5	25.5	25.0
17	---	19.0	17.0	15.0	17.5	---	19.0	23.0	24.0	25.0	25.5	25.0
18	---	18.0	17.5	17.5	18.0	---	18.5	22.5	24.0	25.5	25.5	25.0
19	24.5	18.0	19.0	18.0	19.0	---	18.5	22.0	24.5	25.5	25.5	24.5
20	24.5	19.0	18.5	17.0	20.0	---	19.5	22.0	24.5	24.5	25.5	24.0
21	24.5	19.5	19.0	13.0	20.0	---	20.5	22.5	25.0	24.0	25.0	24.0
22	24.5	19.5	19.0	11.5	19.0	18.0	21.5	23.0	25.5	24.5	24.0	24.0
23	24.5	19.5	20.0	13.5	18.5	18.0	22.0	23.5	25.0	24.5	24.5	24.5
24	24.5	20.5	20.0	16.5	17.5	18.5	21.5	24.0	25.0	24.5	24.5	24.5
25	24.0	20.5	17.5	18.5	16.5	19.5	21.0	24.0	25.5	24.0	25.0	24.0
26	22.5	20.0	12.5	19.0	16.5	20.0	21.0	23.5	25.5	24.0	25.5	24.0
27	21.0	19.5	10.5	19.5	18.0	20.0	22.0	23.5	25.5	23.5	25.0	24.0
28	20.5	20.5	14.5	19.0	18.0	21.5	22.5	23.0	25.5	24.5	24.5	24.0
29	20.5	20.5	17.5	17.0	15.0	21.0	22.5	23.5	25.0	25.0	24.0	23.5
30	21.0	20.0	17.0	15.5	---	20.0	23.0	23.5	25.0	24.5	24.5	23.5
31	21.5	---	12.5	15.0	---	18.0	---	23.0	---	24.5	25.0	---
MAX	24.5	22.0	23.0	19.5	20.0	21.5	23.0	25.0	25.5	25.5	26.5	25.0

WTR YR 1984 MEAN 21.0 MAX 26.5 MIN 10.5

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'00", long 82°34'25", in NE¼ sec.2, T.23 S., R.17 E., Hernando County, Hydrologic Unit 03100207, on west side of spring pool at head of Weeki Wachee River, and 12 mi southwest of Brooksville.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1917, 1929-30 (one discharge measurement in each year); February 1931 to June 1966 (discharge measurements only); July 1966 to current year (gage heights and discharge measurements only). TEMPERATURE OBSERVATIONS: October 1977 to current year. See REMARKS.

GAGE.--Nonrecording gage read once daily. Datum of gage is 8.12 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Discharge measurements made about 1.0 mi downstream from head of springs. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

AVERAGE DISCHARGE.--426 measurements, 175 ft³/s, 113 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 275 ft³/s Oct. 19, 1964; maximum gage height observed, 3.86 ft Sept. 9, 1960; minimum discharge measured, 101 ft³/s July 24, 1956; minimum gage height observed, 0.58 ft Aug. 5, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 3.26 ft Sept. 28; minimum observed, 2.58 ft May 26, several days in June.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.18	3.09	2.98	2.98	2.89	2.94	2.82	2.76	2.64	2.70	3.00	3.12
2	3.18	3.08	3.00	2.98	2.88	2.90	2.80	2.74	2.64	2.70	3.02	3.12
3	3.16	3.08	2.98	2.98	2.88	2.90	2.80	2.76	2.64	2.74	3.04	3.12
4	3.16	3.06	2.98	2.99	2.90	2.90	2.98	2.74	2.62	2.74	3.06	3.12
5	3.16	3.08	2.98	3.00	2.88	2.90	2.88	2.70	2.60	2.74	3.08	3.12
6	3.16	3.07	2.98	2.98	2.88	2.90	2.88	2.70	2.58	2.76	3.10	3.12
7	3.16	3.07	2.96	3.00	2.86	2.90	2.88	2.70	2.60	2.76	3.12	3.10
8	3.16	3.08	2.96	2.98	2.86	2.88	2.88	2.70	2.60	2.78	3.10	3.10
9	3.16	3.08	2.96	2.97	2.86	2.88	2.88	2.70	2.60	2.78	3.10	3.10
10	3.18	3.08	2.9[illegible]	3.00	2.86	2.88	2.86	2.70	2.58	2.78	3.10	3.10
11	3.16	3.08	2.94	2.97	2.86	2.88	2.86	2.68	2.60	2.78	3.10	3.10
12	3.18	3.08	2.98	2.96	2.86	2.88	2.84	2.68	2.58	2.78	3.10	3.10
13	3.18	3.06	2.96	2.96	2.86	2.90	2.86	2.68	2.58	2.80	3.10	3.10
14	3.18	3.06	2.96	2.98	2.92	2.88	2.86	2.66	2.60	2.80	3.08	3.10
15	3.19	3.06	2.96	2.96	2.92	2.88	2.86	2.64	2.58	2.80	3.12	3.10
16	3.19	3.06	2.96	2.95	2.90	2.88	2.86	2.64	2.58	2.82	3.12	3.10
17	3.18	3.04	2.94	2.95	2.92	2.88	2.88	2.64	2.58	2.82	3.10	3.10
18	3.16	3.02	2.94	2.95	2.92	2.86	2.88	2.64	2.60	2.82	3.10	3.10
19	3.16	3.02	2.94	2.94	2.92	2.84	2.86	2.64	2.58	2.82	3.15	3.10
20	3.14	3.02	2.94	2.94	2.92	2.84	2.84	2.62	2.60	2.88	3.10	3.10
21	3.14	3.06	2.92	2.94	2.92	2.84	2.80	2.64	2.60	2.88	3.12	3.08
22	3.14	3.04	2.92	2.92	2.92	2.84	2.80	2.60	2.60	2.88	3.14	3.08
23	3.14	3.04	2.92	2.90	2.94	2.82	2.80	2.62	2.62	2.86	3.14	3.10
24	3.14	3.02	2.92	2.92	2.92	2.82	2.80	2.62	2.68	2.88	3.12	3.10
25	3.14	3.02	2.92	2.92	2.90	2.82	2.80	2.60	2.60	2.88	3.14	3.10
26	3.10	3.00	2.90	2.92	2.90	2.82	2.80	2.58	2.64	2.86	3.12	3.08
27	3.10	3.02	2.90	2.92	2.92	2.86	2.80	2.60	2.68	2.88	3.10	3.06
28	3.10	3.02	2.90	2.92	2.94	2.84	2.80	2.64	2.66	2.88	3.10	3.26
29	3.10	3.00	2.90	2.90	2.96	2.84	2.75	2.64	2.68	2.90	3.12	3.14
30	3.10	3.00	3.00	2.90	---	2.84	2.75	2.64	2.72	2.90	3.12	3.11
31	3.08	---	2.98	2.90	---	2.82	---	2.64	---	2.88	3.12	---
MEAN	3.15	3.05	2.95	2.95	2.90	2.87	2.84	2.66	2.62	2.82	3.10	3.11
MAX	3.19	3.09	3.00	3.00	2.96	2.94	2.98	2.76	2.72	2.90	3.15	3.26
MIN	3.08	3.00	2.90	2.90	2.86	2.82	2.75	2.58	2.58	2.70	3.00	3.06

CAL YR 1983 MEAN 2.87 MAX 3.24 MIN 2.62
WTR YR 1984 MEAN 2.92 MAX 3.26 MIN 2.58

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-65, 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT 17...	1150	3.18	--	--	276	7.0	8.2	24.0	5	4.7	48
NOV 04...	0730	3.06	227	--	--	7.2	--	24.5	--	4.5	--
JAN 05...	1500	3.00	215	360	--	7.1	--	24.0	--	4.6	--
MAR 07...	0745	2.90	--	320	--	7.1	--	18.0	--	4.6	--
23...	1030	--	207	--	--	--	--	24.0	--	--	--
MAY 02...	1015	2.74	--	300	--	7.2	--	24.0	--	4.4	--
08...	1130	--	206	--	--	--	--	24.0	--	--	--
15...	1200	2.64	--	--	--	--	--	--	--	--	--
23...	0930	2.62	--	273	--	6.8	--	24.0	--	1.8	--
JUL 09...	1445	2.78	--	270	--	6.8	--	24.0	--	3.7	--
AUG 31...	1124	3.12	256	300	--	6.9	--	23.5	--	2.3	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 17...	5.3	3.1	.20	8.4	5.0	.10	8.2	151	--	--	--
NOV 04...	--	--	--	--	--	--	--	--	<.010	--	.020
JAN 05...	--	--	--	--	--	--	--	--	<.010	.21	.010
MAR 07...	--	--	--	--	--	--	--	--	<.010	.19	.020
23...	--	--	--	--	--	--	--	--	--	--	--
MAY 02...	--	--	--	--	--	--	--	--	<.010	.21	.020
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	.010	.22	.020
AUG 31...	--	--	--	--	--	--	--	--	.010	.02	.040

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT 17...	--	--	--	20	1	1	2	70	70	4	2
NOV 04...	--	.020	.010	--	--	--	--	--	--	--	--
JAN 05...	<.05	.020	.010	--	--	--	--	--	--	--	--
MAR 07...	<.05	.020	.010	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
MAY 02...	.05	.020	.010	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	<.05	.020	.010	--	--	--	--	--	--	--	--
AUG 31...	.12	<.020	.010	--	--	--	--	--	--	--	--

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
OCT										
17...	0	2	<10	<1	<.1	1	230	9	.70	125
MAY										
23...	--	--	--	--	--	--	--	--	12	--

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310600 GULF OF MEXICO NEAR BAYPORT, FL

LOCATION.--Lat 28°32'00", long 82°39'01", on line between secs. 25 and 36, T.22 S., R.16 E., Hernando County, Hydrologic Unit 03100207, at mouth of Weekiwachee River, on Florida Department of Transportation pier at terminus of State Highway 50, 1.1 mi southwest of Bayport.

PERIOD OF RECORD.--January 1964 to September 1965 (elevations only); October 1965 to September 1976 (maximum and minimum gage heights only); October 1976 to current year (maximum and minimum elevations only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Gage records water levels and tidal fluctuations in Gulf of Mexico. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide event occurred; on those days the daily extremes are used.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.43 ft June 19, 1972 (affected by hurricane); minimum, 2.35 ft below NGVD, Feb. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.92 ft Mar. 28; minimum, 2.05 ft below NGVD, Jan. 22.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.23	-0.79	2.09	-0.99	1.99	-1.34	1.31	-1.99	1.80	-1.78	.44	-1.88
2	2.77	-0.66	1.96	-0.88	2.68	-1.39	.62	-1.87	1.60	-1.83	1.68	-1.67
3	2.94	-0.69	2.31	-1.10	2.21	-1.28	1.99	-1.69	2.23	-1.46	2.02	-1.52
4	3.33	-0.51	2.72	-1.04	3.26	-1.06	2.35	-1.60	2.66	-1.10	1.67	-1.55
5	3.57	-0.41	3.28	-0.76	2.90	-1.34	2.55	-1.52	2.39	-1.30	2.47	-1.17
6	3.17	-0.40	2.85	-1.17	3.05	-0.99	2.47	-1.39	2.28	-1.55	2.52	-0.28
7	2.57	-0.94	2.66	-1.17	2.57	-1.59	2.46	-1.06	.91	-1.59	2.32	-0.50
8	2.64	-1.03	3.81	-0.59	1.79	-1.33	1.71	-1.44	.92	-1.81	.98	-1.58
9	2.59	-1.07	2.71	-0.82	1.41	-1.57	1.56	-1.36	1.53	-1.70	1.26	-1.23
10	2.09	-1.11	2.87	-0.48	1.62	-1.24	2.85	-0.47	1.84	-1.33	1.39	-1.51
11	2.52	-0.75	2.87	-0.43	2.63	-0.61	2.02	-0.03	1.72	-1.48	1.07	-1.68
12	2.52	-0.43	1.56	-0.75	2.30	-0.19	1.14	-1.11	1.99	-1.55	2.30	-1.72
13	2.39	.02	1.47	-0.52	1.45	-0.68	1.19	-1.20	2.57	-1.55	2.21	-1.65
14	1.62	-0.70	1.97	-0.36	2.35	-0.48	1.28	-1.62	2.38	-1.41	1.98	-2.00
15	1.47	-0.58	2.31	.28	1.46	-0.76	1.89	-1.73	1.50	-1.68	1.75	-1.77
16	1.92	-0.54	1.80	.04	1.35	-1.61	2.69	-1.65	2.42	-1.68	2.42	-2.00
17	2.23	-0.73	1.91	-1.05	1.04	-1.48	1.77	-1.57	2.95	-1.57	2.89	-1.31
18	1.97	-0.72	2.24	-1.20	2.16	-1.72	3.02	-1.46	2.64	-1.55	2.97	-1.25
19	2.17	-0.62	2.23	-1.15	1.17	-1.75	3.62	-0.94	2.52	-1.41	3.01	-1.13
20	2.41	-0.60	3.90	-0.61	2.00	-1.77	1.16	-1.89	2.27	-1.18	3.71	-1.00
21	2.20	-1.07	3.40	-1.19	2.17	-1.73	1.52	-1.86	2.57	-0.94	2.86	-0.49
22	2.11	-1.16	2.88	-1.31	2.64	-1.61	.50	-2.05	2.81	-1.31	2.16	-1.18
23	2.76	-0.88	2.82	-1.28	2.69	-1.49	1.77	-1.61	1.64	-0.49	1.69	-1.47
24	3.55	-0.66	3.30	-0.77	2.74	-0.55	2.41	-0.48	1.78	-1.10	1.89	-1.50
25	2.74	-1.11	3.12	-1.29	-0.22	-1.91	2.22	-0.54	1.42	-0.84	1.84	-1.20
26	2.22	-1.10	1.63	-1.04	.55	-1.65	2.28	-1.15	1.26	-1.70	1.48	-0.54
27	2.10	-1.40	2.24	-0.60	1.73	-0.98	2.23	-0.88	3.26	-1.19	2.38	-0.79
28	1.57	-1.25	2.45	-0.20	2.42	-0.79	1.90	-1.23	3.03	.99	4.92	.17
29	1.85	-1.07	1.59	-0.79	1.80	-0.90	1.77	-1.27	.75	-0.32	2.59	.69
30	2.04	-1.08	1.47	-0.85	.02	-1.70	1.40	-1.54	---	---	.95	-1.50
31	2.30	-2.00	---	---	.10	-2.00	2.57	-1.63	---	---	1.58	-1.58
MEAN	2.41	-0.84	2.48	-0.80	1.87	-1.27	1.94	-1.35	2.06	-1.29	2.11	-1.22

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310600 GULF OF MEXICO NEAR BAYPORT, FL

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.67	-1.43	2.65	-1.32	2.19	-1.53	3.13	-1.11	3.01	-0.76	2.61	-0.79
2	2.08	-1.40	3.21	-1.01	2.75	-1.25	2.93	-0.14	2.37	-0.44	2.23	-0.71
3	2.84	-1.06	3.61	-0.34	2.44	-0.08	2.36	-1.20	2.09	-0.54	2.32	-0.55
4	3.43	-0.68	3.27	-0.97	2.28	-2.00	2.36	-1.15	2.18	-0.54	2.41	-0.32
5	2.76	-0.74	2.76	.41	2.29	-1.26	2.02	-0.32	2.22	-0.67	2.42	-0.79
6	1.97	-0.23	2.47	-1.30	2.17	-1.14	2.15	-0.68	2.22	-0.88	2.35	-1.16
7	1.76	-1.07	2.34	-2.00	2.10	-0.87	2.29	-0.91	2.29	-1.08	2.00	-1.25
8	2.39	-1.50	2.21	-2.00	2.27	-0.74	2.33	-0.97	2.27	-0.96	1.79	-1.13
9	2.69	-1.15	1.27	-0.94	2.70	-0.81	2.50	-0.99	2.33	-1.00	2.76	-0.46
10	2.29	-0.93	1.44	-1.49	2.89	-0.89	2.72	-1.18	2.49	-0.90	2.79	-0.48
11	1.90	-1.50	1.87	-1.41	3.07	-1.10	2.63	-1.14	2.69	-0.83	2.80	-0.42
12	2.69	-1.58	2.46	-1.07	2.98	-1.23	2.95	-0.88	2.74	.17	2.66	-1.00
13	2.55	-2.00	2.49	-1.33	3.13	-1.25	3.13	.29	2.87	-1.00	2.47	-0.63
14	2.78	-0.83	2.46	-1.42	3.31	-1.03	3.12	-1.04	2.47	-0.69	2.37	-0.78
15	2.86	-0.95	2.37	-1.54	3.33	-1.00	2.80	-0.94	2.18	-0.79	2.56	-0.52
16	3.45	-1.11	2.41	-0.86	3.01	-1.06	2.94	-0.92	1.99	-0.74	2.63	-0.69
17	2.87	-0.70	2.18	-1.75	2.78	-1.00	2.85	-0.71	1.93	-0.58	2.01	-1.03
18	2.27	-1.37	2.35	-1.69	2.54	-0.86	2.78	.11	2.24	-0.32	2.27	-0.65
19	2.65	-1.41	2.52	-1.61	2.27	-1.00	1.65	-0.35	2.68	.02	1.56	-0.92
20	2.41	-0.08	2.49	-1.24	1.76	-0.03	1.64	-0.48	2.82	.12	1.91	-0.84
21	2.10	-1.33	2.08	-0.99	1.69	-0.44	1.76	-0.45	2.19	-0.94	2.07	-1.04
22	1.75	-1.14	1.82	-0.98	2.19	-0.30	2.02	-0.30	1.91	-1.12	2.61	-1.04
23	1.96	-0.41	1.53	-0.81	2.66	-0.12	1.99	-0.79	2.31	-1.18	2.74	-0.95
24	1.36	-0.06	1.75	-0.74	2.13	-0.66	2.19	-0.81	2.85	-1.01	2.77	-0.87
25	1.37	-1.04	1.79	-0.57	2.54	-0.73	2.79	-1.03	3.05	-1.09	2.61	-0.74
26	1.84	-1.18	1.94	-1.07	2.47	-1.19	2.97	-1.15	2.87	-0.33	2.12	-0.93
27	2.36	-0.83	2.16	-1.19	2.59	-1.09	3.18	-1.07	3.09	-2.00	1.81	-1.34
28	2.54	-0.81	2.47	-1.18	3.04	-1.22	3.42	-0.01	3.01	-0.93	3.89	.39
29	2.19	-1.14	2.42	-1.44	3.50	-1.04	3.53	-0.99	2.78	-0.79	2.58	-1.00
30	2.65	-0.98	2.34	-1.47	4.16	-1.08	3.42	-0.80	2.37	-0.76	2.31	-0.97
31	---	---	1.72	-1.73	---	---	3.21	-0.85	2.65	-0.73	---	---
MEAN	2.35	-1.02	2.29	-1.19	2.64	-0.93	2.64	-0.74	2.49	-0.75	2.41	-0.79
YEAR	2.31	-1.02										

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310750 CRYSTAL RIVER NEAR CRYSTAL RIVER, FL

LOCATION.--Lat 28°54'17", long 82°38'13", in SE¼ sec.13, T.18 S., R.16 E., Citrus County, Hydrologic Unit 03100207, at left bank, 0.1 mi upstream from Salt River, 2.7 mi west of town of Crystal River, and 4.0 mi upstream from mouth.

PERIOD OF RECORD.--February 1964 to September 1977; October 1977 to current year (maximum and minimum elevations only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929 (Citrus County bench mark); gage readings have been reduced to elevations NGVD.

REMARKS.--Gage records tidal fluctuations in Crystal River; elevations affected by flow from several springs located east of the station and near the town of Crystal River. The stage record published is the maximum and minimum tide event for each calendar day except on those days when no maximum or minimum tide event occurred; on those days the daily extremes are used.

AVERAGE DISCHARGE.--13 years (1965-77), 975 ft^3/s, 706,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.48 ft Sept. 10, 1964; minimum, 2.72 ft below NGVD, Sept. 9, 1965.

1964-77: Maximum daily discharge, 4,340 ft^3/s Sept. 11, 1964; maximum daily reverse flow, 1,520 ft^3/s Sept. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.90 ft Mar. 29; minimum, 2.02 ft below NGVD, Dec. 31.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.30	-0.24	1.95	-0.31	1.80	-0.75	.08	-1.86	1.76	-1.23	.66	-1.49
2	2.67	.00	1.87	-0.35	1.99	-0.65	1.27	-1.46	1.60	-1.25	1.69	-0.95
3	2.84	.10	2.14	-0.46	2.57	-0.33	1.82	-1.08	2.08	-0.69	1.94	-0.75
4	3.15	.42	2.61	-0.10	3.22	.13	2.22	-0.84	2.56	-0.26	1.67	-0.81
5	3.27	.48	3.06	.10	2.70	-0.39	2.45	-0.67	2.26	-0.55	2.40	-0.41
6	3.00	.52	2.47	-0.37	2.90	.00	2.32	-0.58	2.46	-0.52	2.67	.59
7	2.54	.06	2.39	-0.34	2.07	-1.05	2.39	-0.47	.99	-1.20	2.16	-0.20
8	2.62	-0.14	3.26	.17	1.81	-0.80	1.70	-0.86	.80	-1.51	1.20	-1.19
9	2.50	-0.24	2.57	-0.06	1.53	-0.99	1.63	-0.82	1.58	-1.26	1.48	-0.81
10	2.14	-0.41	2.49	.24	1.67	-0.68	2.98	-0.09	1.95	-0.80	1.52	-1.20
11	2.29	.04	2.59	.04	2.60	-0.08	1.90	.12	1.72	-0.88	1.33	-1.16
12	2.67	.25	1.80	-0.31	2.15	.38	1.20	-0.83	2.14	-0.98	2.12	-1.25
13	2.64	.84	1.68	-0.25	1.62	-0.41	1.22	-1.10	1.57	-0.84	2.17	-0.75
14	1.73	-0.30	2.04	-0.02	2.46	-0.04	1.42	-1.25	2.55	-0.65	1.56	-0.89
15	1.42	-0.40	2.30	.66	1.62	-0.27	1.16	-1.20	2.29	-0.97	1.99	-1.02
16	1.88	-0.13	1.52	.27	.11	-1.02	1.95	-0.94	2.33	-0.90	2.29	-0.63
17	2.09	-0.16	1.68	-0.48	1.41	-0.97	2.64	-0.72	2.66	-0.70	2.68	-0.30
18	1.87	-0.28	1.88	-0.48	1.18	-1.32	2.83	-0.52	2.42	-0.67	2.78	-0.33
19	2.04	-0.27	2.18	-0.34	1.90	-1.14	3.35	-0.59	2.32	-0.55	2.81	-0.02
20	2.30	-0.08	3.09	.43	1.86	-1.18	1.09	-1.50	2.19	-0.41	4.08	-0.15
21	2.02	-0.39	3.21	-0.26	1.81	-1.24	1.45	-1.52	2.27	-0.42	2.75	.38
22	1.89	-0.58	2.69	-0.38	2.38	-0.85	.22	-1.96	2.86	-0.62	2.21	-0.38
23	2.68	.02	2.67	-0.29	2.50	-0.75	1.70	-1.31	2.03	.08	1.74	-0.75
24	3.31	.30	3.20	.27	2.68	-1.40	2.36	-0.24	2.00	-0.56	1.99	-0.93
25	2.59	-0.28	3.22	-0.48	-0.29	-1.95	2.31	-0.06	1.63	-0.45	2.16	-0.65
26	2.19	-0.42	1.75	-0.60	.61	-1.39	2.27	-0.53	1.36	-1.28	1.59	-0.32
27	1.85	-0.86	2.27	-0.01	1.85	-0.70	2.22	-0.33	3.22	-0.47	1.64	-0.41
28	1.60	-0.66	2.55	.52	2.43	-0.15	2.11	-0.64	3.48	1.61	2.88	.69
29	1.98	-0.55	1.50	-0.42	1.79	-0.02	1.19	-0.68	2.04	-0.17	4.90	.91
30	2.14	-0.40	1.69	-0.46	-0.11	-1.46	1.92	-0.82	---	---	1.66	-0.92
31	2.15	-0.33	---	---	-0.70	-2.02	2.35	-1.01	---	---	1.53	-0.97
MEAN	2.33	-0.13	2.34	-0.14	1.75	-0.76	1.86	-0.85	2.11	-0.66	2.14	-0.55

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310750 CRYSTAL RIVER NEAR CRYSTAL RIVER, FL

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW	HIGH-HIGH	LOW-LOW
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.58	-0.76	2.70	-0.30	2.19	-1.18	3.27	-0.12	2.95	.11	2.53	-0.07
2	2.05	-0.63	2.40	.10	2.70	-0.76	2.75	-0.15	2.41	.36	2.21	-0.16
3	2.74	.19	2.30	-0.20	2.45	-0.40	2.35	-0.35	2.14	-0.03	2.32	-0.01
4	3.52	-0.22	3.44	1.72	2.32	-0.51	2.36	-0.37	2.24	.04	2.46	.11
5	3.00	1.38	2.73	.60	2.33	-0.53	2.15	-0.11	2.33	-0.11	2.44	-0.16
6	2.40	1.60	2.47	-0.32	2.31	-0.40	2.22	-0.08	2.28	-0.36	2.21	-0.55
7	2.10	-0.30	2.42	-0.46	2.14	-0.23	2.29	-0.24	2.14	-0.46	1.77	-0.74
8	2.50	-0.80	2.47	-0.44	2.27	-0.24	2.35	-0.35	2.29	-0.34	1.63	-0.70
9	2.80	-0.30	1.42	-0.42	2.56	-0.02	2.45	-0.42	2.34	-0.25	2.59	.07
10	2.40	.00	1.44	-0.89	2.78	-0.03	2.64	-0.40	2.60	-0.10	2.79	.35
11	2.00	-0.70	1.88	-0.74	2.84	-0.24	2.66	-0.37	2.70	.00	2.69	.26
12	2.80	-0.80	2.39	-0.37	2.81	-0.40	2.94	-0.01	2.80	.90	2.54	.14
13	2.60	-1.10	2.35	-0.46	2.94	.18	3.00	.73	2.90	-0.20	2.39	.11
14	2.80	.00	2.35	-0.54	3.07	-0.33	2.93	-0.07	2.60	-0.10	2.34	-0.02
15	3.10	-0.20	2.33	.13	3.14	-0.11	2.77	-0.12	2.30	-0.30	2.61	.21
16	3.60	-0.40	2.21	-0.72	2.91	-0.07	2.83	-0.06	2.10	-0.20	2.54	.15
17	2.90	.10	2.02	-0.99	2.54	-0.20	2.85	.11	2.20	-0.10	2.00	-0.59
18	2.30	-0.20	2.24	-0.98	2.52	-0.30	2.89	.90	2.40	.10	2.06	-0.35
19	2.80	-0.30	2.46	-0.79	2.32	-0.13	1.86	.48	2.60	.30	1.62	-0.44
20	2.50	.80	2.48	-0.43	2.01	-0.07	1.78	-0.03	2.80	.50	1.86	-0.41
21	2.20	-0.20	2.16	-0.23	1.90	-0.07	1.93	-0.04	2.40	.00	2.10	-0.41
22	1.90	-0.10	1.86	-0.34	2.29	-0.15	2.18	-0.05	2.00	-0.50	2.37	-0.34
23	2.10	.50	1.62	-0.33	2.46	.28	2.20	-0.30	2.50	-0.80	2.53	-0.15
24	1.40	.70	1.94	-0.20	2.16	-0.17	2.25	-0.05	3.00	-0.50	2.46	-0.11
25	1.60	.10	1.94	-0.14	2.60	.01	2.73	-0.18	3.10	-0.60	2.37	-0.12
26	2.00	-0.40	2.02	-0.36	2.36	-0.47	2.82	-0.28	2.90	.00	2.02	-0.30
27	2.50	.10	2.18	-0.42	2.53	-0.35	3.05	.56	3.10	-1.10	1.80	-0.76
28	2.60	-0.40	2.42	-0.33	2.78	-0.33	3.13	-0.13	3.00	-0.60	2.48	-0.54
29	2.20	-0.20	2.39	-0.60	3.44	1.19	3.22	-0.10	2.90	-0.50	2.46	-0.17
30	2.80	-0.10	2.18	-0.07	3.53	.03	3.17	.04	2.50	-0.50	2.32	-0.21
31	---	---	1.59	-0.81	---	---	2.98	.00	2.70	-0.10	---	---
MEAN	2.46	-0.09	2.22	-0.33	2.57	-0.20	2.61	-0.05	2.56	-0.18	2.28	-0.20
YEAR	2.27	-0.34										

WITHLACOOCHEE RIVER BASIN

02310800 WITHLACOOCHEE RIVER NEAR EVA, FL
(National stream-quality accounting network station)

LOCATION.--Lat 28°21'38", long 81°49'08", in NW¼ sec.33, T.24 S., R.25 E., Polk County, Hydrologic Unit 03100208, near center of span on upstream side of bridge on State Highway 33, 2.5 mi north of Eva, 6.5 mi upstream from small tributary, and 138 mi upstream from mouth.

DRAINAGE AREA.--130 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 104.90 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--26 years (water years 1959-84), 52.1 ft^3/s, 5.44 in/yr, 37,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft^3/s Mar. 17, 1960, gage height, 6.90 ft; no flow for many days in some years; minimum gage height, 1.18 ft May 31, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 256 ft^3/s July 23, gage height, 5.69 ft; minimum daily discharge, 1.5 ft^3/s June 18, estimated; minimum gage height, 3.20 ft June 18, estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	20	15	72	57	67	23	53	30	25	174	67
2	27	18	14	72	55	64	21	50	25	36	177	68
3	24	17	13	71	53	60	20	48	22	47	157	65
4	21	16	13	71	51	58	40	45	19	68	136	65
5	24	15	12	72	49	57	61	42	17	52	141	111
6	24	14	13	70	45	56	64	40	15	52	183	110
7	23	15	16	69	43	55	62	38	12	45	146	105
8	23	17	18	65	41	53	59	34	10	48	148	96
9	28	18	15	62	38	50	63	30	8.0	46	123	91
10	25	18	13	66	36	48	69	27	7.0	54	103	85
11	27	17	12	76	35	46	67	24	5.5	54	91	77
12	31	16	26	77	33	44	66	22	4.5	58	86	69
13	61	15	30	76	38	48	67	22	3.8	68	79	64
14	59	14	30	75	49	48	67	25	3.0	102	86	59
15	66	13	34	72	51	47	70	30	2.5	133	104	54
16	64	13	36	70	48	45	74	30	2.0	155	99	51
17	59	12	35	69	44	43	74	29	1.7	160	89	49
18	62	11	29	68	42	41	74	27	1.5	151	80	44
19	55	12	26	70	40	39	75	24	5.5	148	77	41
20	50	13	26	72	41	37	75	21	5.0	140	76	39
21	49	14	29	74	42	36	75	18	4.5	138	93	36
22	48	15	26	76	53	35	75	16	3.5	158	109	32
23	48	16	24	76	57	33	75	19	3.2	244	97	30
24	39	16	22	74	54	32	74	30	3.7	234	89	27
25	36	15	19	72	51	34	71	38	4.0	206	109	23
26	35	14	17	72	48	35	68	40	3.9	197	99	18
27	34	13	16	70	49	35	66	41	3.8	199	92	18
28	31	13	18	68	68	33	63	41	3.7	190	85	33
29	26	14	28	66	70	30	59	40	3.6	178	80	34
30	24	15	59	62	---	28	56	38	15	163	75	36
31	22	---	70	60	---	26	---	34	---	151	70	---
TOTAL	1175	449	754	2185	1381	1363	1873	1016	248.9	3710	3353	1697
MEAN	37.9	15.0	24.3	70.5	47.6	44.0	62.4	32.8	8.30	120	108	56.6
MAX	66	20	70	77	70	67	75	53	30	244	183	111
MIN	21	11	12	60	33	26	20	16	1.5	25	70	18
CFSM	.29	.12	.19	.54	.37	.34	.48	.25	.06	.92	.83	.44
IN.	.34	.13	.22	.63	.40	.39	.54	.29	.07	1.06	.96	.49
AC-FT	2330	891	1500	4330	2740	2700	3720	2020	494	7360	6650	3370

CAL YR 1983 TOTAL 23667.00 MEAN 64.8 MAX 307 MIN .90 CFSM .50 IN. 6.77 AC-FT 46940
WTR YR 1984 TOTAL 19204.9 MEAN 52.5 MAX 244 MIN 1.5 CFSM .40 IN. 5.50 AC-FT 38090

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02310800 WITHLACOOCHEE RIVER NEAR EVA, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT									
03...	1050	4.12	24	78	4.3	23.0	--	--	2.5
NOV									
28...	0915	4.13	13	74	4.5	20.0	--	--	4.2
DEC									
15...	0930	4.00	34	--	--	17.5	--	--	--
FEB									
06...	0920	4.60	47	85	4.6	12.5	--	--	5.1
APR									
02...	1000	4.30	22	87	--	17.5	--	--	4.2
30...	1015	4.72	56	102	5.1	24.5	--	--	3.1
JUL									
03...	1030	4.60	44	--	--	27.5	--	--	--
09...	1200	4.60	46	67	4.3	27.0	250	2.5	3.0
AUG									
17...	0840	5.00	89	62	5.4	28.5	--	--	1.7
SEP									
28...	1150	4.46	33	69	6.1	23.5	--	--	1.2

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
28...	--	--	--	--	--	--	--	--	--
DEC									
15...	--	--	--	--	--	--	--	--	--
FEB									
06...	--	--	--	--	--	--	--	--	--
APR									
02...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUL									
03...	--	--	--	--	--	--	--	--	--
09...	2.9	1.0	5.4	.60	11	13	<.10	1.9	130
AUG									
17...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT												
03...	.00	.020	.02	.020	1.4	1.4	1.4	.060	--	.050	--	--
NOV												
28...	.01	.010	.02	<.010	--	1.0	1.0	.060	--	.040	--	--
APR												
02...	--	.010	<.10	<.010	--	.90	--	.030	.09	.030	--	--
30...	--	.020	<.10	.100	2.7	2.8	--	.050	.15	.060	--	--
JUL												
09...	.09	.010	.10	<.010	--	1.8	1.9	.050	--	.040	13	45
AUG												
17...	--	.010	<.10	.030	1.3	1.3	--	.080	--	.070	--	--
SEP												
28...	.00	.020	.02	.070	1.3	1.4	1.4	.120	--	.100	--	--

02310800 WITHLACOOCHEE RIVER NEAR EVA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1958-61, 1963 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1964 to current year.
WATER TEMPERATURE: October 1964 to current year.

INSTRUMENTATION.--Specific conductance and water temperature recorder since Nov. 3, 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 415 micromhos Apr. 14, 1975; minimum observed, 35 micromhos June 11, 1977.
WATER TEMPERATURE: Maximum daily mean, 34.0°C June 24,28, 1977; minimum observed, 5.0°C Jan. 31, Feb. 1, 1966.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum daily mean, 28.5°C Aug. 17; minimum daily mean, 8.0°C Dec. 27.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---	85	82	59	85				---	
2	---		---	93	79	62	85				---	
3	73		---	106	79	62	---				---	
4	77		---	99	94	64	---				---	
5	82		---	99	88	61	---				---	
6	74		---	123	87	58	---				---	
7	75		---	157	81	59	---				---	
8	---		---	164	79	60	---				---	
9	---		68	175	83	60	---				---	
10	---		72	197	95	60	---				---	
11	---		73	235	97	61	---				---	
12	---		73	269	92	61	---				---	
13	---		71	175	86	59	---				---	
14	---		68	237	81	59	---				---	
15	---		67	310	72	61	---				---	
16	---		68	224	65	66	---				---	
17	---		67	260	66	67	---				57	
18	---		69	217	62	72	---				57	
19	---		71	204	61	78	---				58	
20	---		70	227	57	83	---				---	
21	---		73	184	55	81	---				---	
22	---		76	116	52	80	---				---	
23	---		69	142	53	82	---				---	
24	---		71	153	54	83	---				---	
25	---		72	162	55	85	---				---	
26	---		72	181	57	88	---				---	
27	---		72	155	61	86	---				---	
28	---		76	144	59	88	---				---	
29	---		75	129	59	90	---				---	
30	---		71	94	---	88	---				---	
31	---		68	84	---	86	---				---	
MEAN	---		---	168	72	71	---				---	
MAX	---		---	310	97	90	---				---	
MIN	---		---	84	52	58	---				---	

WITHLACOOCHEE RIVER BASIN

02310800 WITHLACOOCHEE RIVER NEAR EVA, FL--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---	9.0	10.5	13.0	17.0	24.5	22.0	26.0	---	27.0
2	---		---	9.0	10.5	12.5	17.5	24.5	22.0	26.0	---	27.0
3	23.5		---	10.0	11.5	13.5	18.5	24.5	23.0	25.5	---	26.5
4	23.5		---	9.5	12.5	14.5	19.0	25.0	24.0	26.0	---	26.5
5	23.5		---	9.5	12.5	16.0	19.0	25.0	24.5	26.5	---	25.5
6	24.0		---	10.0	12.5	17.5	18.0	25.5	25.0	26.5	---	25.5
7	24.0		---	10.5	12.0	18.0	17.5	26.5	25.0	27.0	---	24.5
8	---		---	10.0	11.5	16.0	19.0	26.5	25.0	27.5	---	24.5
9	---		14.0	10.0	12.0	15.0	19.5	24.5	25.0	27.0	---	24.5
10	---		14.5	11.5	13.0	15.5	20.0	22.5	24.5	---	---	25.0
11	---		16.0	12.0	14.0	15.5	20.0	22.5	25.0	---	---	25.5
12	---		16.5	11.0	15.0	16.0	20.0	22.5	25.0	---	---	26.0
13	---		15.5	11.0	15.5	17.5	21.5	23.5	24.5	---	---	26.0
14	---		15.0	11.0	16.0	18.5	22.0	24.0	24.0	---	---	26.5
15	---		15.0	11.0	16.0	18.5	20.5	24.5	24.5	---	---	26.5
16	---		14.0	11.5	16.0	18.5	19.0	24.5	24.5	---	---	26.5
17	---		15.0	12.0	16.0	18.0	18.0	22.5	25.0	---	28.5	26.5
18	---		16.0	13.5	16.5	18.5	17.5	21.5	25.0	---	28.0	26.5
19	---		16.5	14.0	17.5	19.5	18.5	22.0	25.5	---	28.0	25.5
20	---		15.0	13.0	18.5	19.5	20.0	22.5	26.5	---	27.0	25.0
21	---		16.0	11.0	18.5	18.0	21.5	24.0	27.0	---	26.0	25.0
22	---		16.0	10.0	18.0	17.0	23.5	25.0	26.5	---	25.5	25.5
23	---		17.0	11.0	18.0	17.5	23.5	24.5	26.5	---	26.0	25.5
24	---		16.0	12.5	16.5	17.5	22.0	24.0	27.0	---	26.5	25.5
25	---		11.5	13.5	16.5	19.0	21.0	24.0	27.5	---	26.5	25.0
26	---		8.5	14.5	16.5	19.5	22.0	24.0	27.5	---	26.5	24.5
27	---		8.0	15.5	17.5	19.0	23.0	24.5	27.0	---	26.0	24.5
28	---		10.5	15.5	17.0	20.5	23.5	25.0	26.5	---	26.0	24.5
29	---		13.5	14.0	14.5	19.5	24.0	25.0	25.5	---	26.0	24.5
30	---		12.5	12.5	---	17.5	24.5	25.0	25.5	---	26.5	24.5
31	---		10.0	12.5	---	17.0	---	23.5	---	---	27.0	---
MEAN	---		---	11.5	15.0	17.0	20.5	24.0	25.0	---	---	25.5
MAX	---		---	15.5	18.5	20.5	24.5	26.5	27.5	---	---	27.0
MIN	---		---	9.0	10.5	12.5	17.0	21.5	22.0	---	---	24.5

WITHLACOOCHEE RIVER BASIN

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL

LOCATION.--Lat 28°18'42", long 82°03'22", in NE¼ sec.13, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, near left bank on downstream side of bridge on State Highway 471, 0.6 mi upstream from Gator Creek, 3.4 mi south of Cumpressco, 5.8 mi east of Richland, and 120 mi upstream from mouth.

DRAINAGE AREA.--280 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1967 to current year. Miscellaneous discharge measurements for some periods prior to January 1967.

GAGE.--Water-stage recorder. Datum of gage is 75.00 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Aug. 3, 1978, at datum 5.00 ft higher.

REMARKS.--Records fair. Records are for flow of main channel only, which normally includes all the flow. Some interconnection with Gator Creek and some diversions to the north probably exist during periods of extreme high water.

AVERAGE DISCHARGE.--17 years (water years 1968-84), 149 ft^3/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft^3/s Sept. 30, Oct. 1, 1979, gage height, 13.45 ft; no flow for many days in most years; river dry at gage for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 759 ft^3/s July 28,29; maximum gage height, 10.26 ft Aug. 11,12; minimum discharge, 3.1 ft^3/s June 18, gage height, 5.59 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	136	62	384	243	454	59	63	114	33	640	477
2	112	118	61	445	218	454	55	59	100	59	618	439
3	94	104	59	454	201	451	51	54	81	101	574	398
4	79	94	57	454	188	425	68	49	65	133	533	357
5	66	88	54	454	175	392	93	44	53	161	498	328
6	57	84	51	439	161	360	186	40	43	237	484	346
7	50	81	50	403	147	329	290	36	34	280	488	361
8	43	79	48	368	136	290	388	32	27	276	584	414
9	45	82	47	337	127	257	451	31	23	258	665	453
10	42	89	46	334	118	232	455	29	19	330	688	474
11	39	87	44	358	110	207	456	28	16	327	670	470
12	38	77	57	337	103	187	453	27	13	277	642	449
13	43	67	60	337	115	190	430	26	10	221	597	418
14	48	62	62	350	144	181	407	27	8.3	187	553	383
15	52	59	70	364	145	167	453	29	6.5	178	513	346
16	74	57	76	369	142	151	438	31	5.0	172	459	301
17	158	54	85	363	144	139	395	30	3.5	179	421	258
18	303	50	94	352	154	129	347	29	3.2	214	355	225
19	381	47	106	374	166	119	298	26	11	253	338	262
20	408	51	130	374	168	111	254	22	27	302	308	224
21	417	58	146	375	173	103	217	18	24	319	319	186
22	408	61	149	370	286	95	187	15	18	325	371	154
23	384	62	147	369	359	88	164	27	16	368	368	133
24	357	60	142	370	392	83	147	46	18	462	350	116
25	332	59	131	365	425	78	130	70	22	571	384	103
26	296	59	119	356	446	73	114	95	22	657	473	90
27	263	60	111	343	449	77	101	105	18	725	519	79
28	231	63	108	324	454	77	89	114	15	755	533	94
29	199	64	138	301	454	76	78	124	17	749	540	90
30	174	64	237	279	---	70	70	126	23	714	534	82
31	154	---	318	260	---	64	---	128	---	675	512	---
TOTAL	5480	2176	3065	11362	6543	6109	7324	1580	855.5	10498	15531	8510
MEAN	177	72.5	98.9	367	226	197	244	51.0	28.5	339	501	284
MAX	417	136	318	454	454	454	456	128	114	755	688	477
MIN	38	47	44	260	103	64	51	15	3.2	33	308	79
AC-FT	10870	4320	6080	22540	12980	12120	14530	3130	1700	20820	30810	16880

CAL YR 1983	TOTAL	94236.57	MEAN	258	MAX	1040	MIN	.70	AC-FT	186900
WTR YR 1984	TOTAL	79033.5	MEAN	216	MAX	755	MIN	3.2	AC-FT	156800

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1965, 1967 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT									
19...	1110	8.76	388	80	7.4	26.0	--	--	4.9
NOV									
28...	1255	7.08	63	93	6.4	20.5	--	--	5.8
FEB									
02...	1030	8.05	212	93	6.3	12.5	--	--	8.2
MAR									
29...	0910	7.22	75	94	6.0	20.0	--	--	6.9
APR									
30...	1145	7.16	70	87	5.2	23.0	--	--	5.5
JUN									
18...	1130	5.60	3.5	133	7.5	28.0	110	<1.0	4.6
AUG									
13...	1430	10.12	596	58	5.4	27.5	--	--	--
SEP									
28...	1005	7.42	94	71	5.9	27.0	--	--	4.4

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT									
19...	--	--	--	--	--	--	--	--	--
NOV									
28...	--	--	--	--	--	--	--	--	--
FEB									
02...	--	--	--	--	--	--	--	--	--
MAR									
29...	--	--	--	--	--	--	--	--	--
APR									
30...	--	--	--	--	--	--	--	--	--
JUN									
18...	17	2.7	7.6	.40	<9.5	18	.10	3.9	154
AUG									
13...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
NOV								
28...	.01	.010	.02	<.010	--	1.1	1.1	.070
FEB								
02...	--	.010	<.10	.150	.85	1.0	--	.050
MAR								
29...	--	<.010	<.10	<.010	--	1.0	--	.100
APR								
30...	--	.020	<.10	.040	3.0	3.0	--	.130
JUN								
18...	--	<.010	<.10	.020	1.2	1.2	--	.540
AUG								
13...	--	<.010	<.10	<.010	--	.80	--	.090
SEP								
28...	.00	.020	.02	.010	1.1	1.1	1.1	.120

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV 28...	--	.050	--	--	--	--	--	--	--
FEB 02...	.15	.020	--	--	--	--	--	--	--
MAR 29...	.31	.080	--	--	--	--	--	--	--
APR 30...	.40	.110	--	--	--	--	--	--	--
JUN 18...	--	.070	200	1	<1	4	730	490	1
AUG 13...	--	.060	--	--	--	--	--	--	--
SEP 28...	--	.090	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 28...	--	--	--	--	--	--	--	--
FEB 02...	--	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--	--
APR 30...	--	--	--	--	--	--	--	--
JUN 18...	1	40	40	.8	2	81	27	18
AUG 13...	--	--	--	--	--	--	--	--
SEP 28...	--	--	--	--	--	--	--	--

WITHLACOOCHEE RIVER BASIN

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL

LOCATION.--Lat 28°16'16", long 82°05'53", in NW¼ sec.34, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, near left bank, at downstream side of bridge on U.S. Highway 98, 0.6 mi south of channel of Withlacoochee River, 2.9 mi east of Richland, 8.5 mi southeast of Dade City, and 55 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to September 1931; September 1950, July 1958 to March 1960 (discharge measurements only); April 1960 to current year. Published as supplement to Hillsborough River near Zephyrhills (station 02303000) July 1958 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 75.42 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to July 17, 1958, nonrecording gage at site about 1 mi downstream at different datum; July 17, 1958, to Apr. 24, 1960, nonrecording gage and crest-stage gage at present site and datum.

REMARKS.--Records fair. Flow is uncontrolled natural diversion from the Withlacoochee River basin to the Hillsborough River basin.

AVERAGE DISCHARGE.--25 years (water years 1931, 1961-84), 20.9 ft³/s, 15,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s Mar. 19, 1960, gage height, 6.87 ft, from crest-stage gage; no flow for many days each year; channel dry at gage for many days in 1975, 1977, 1979, 1981, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 137 ft³/s Aug. 12; maximum gage height, 3.97 ft Aug. 12,13; no flow for many days; minimum gage height, 1.60 ft June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.10	.00	30	5.0	74	.00	.00	.00	.00	93	49
2	.44	.00	.00	44	4.1	67	.00	.00	.00	.00	82	38
3	.14	.00	.00	54	3.1	56	.00	.00	.00	.00	71	27
4	.00	.00	.00	57	2.4	46	.34	.00	.00	.00	58	17
5	.00	.00	.00	56	1.8	36	.00	.00	.00	.00	46	14
6	.00	.00	.00	50	1.3	27	1.2	.00	.00	.50	38	13
7	.00	.00	.00	41	.75	19	12	.00	.00	3.1	36	12
8	.00	.00	.00	31	.26	14	24	.00	.00	5.4	49	17
9	.00	.00	.00	22	.00	9.7	41	.00	.00	6.5	81	26
10	.00	.00	.00	23	.00	7.0	55	.00	.00	10	114	33
11	.00	.00	.01	27	.00	5.2	57	.00	.00	12	130	37
12	.00	.00	.07	24	.00	3.7	51	.00	.00	10	137	35
13	.00	.00	.00	23	.30	3.7	43	.00	.00	6.0	136	30
14	.00	.00	.00	22	.49	3.2	35	.00	.00	2.7	122	24
15	.00	.00	.00	23	.77	2.5	44	.00	.00	1.2	102	18
16	.00	.00	.00	24	.95	1.8	45	.00	.00	.56	77	13
17	.00	.00	.00	24	.78	1.3	37	.00	.00	.01	54	8.8
18	.46	.00	.00	22	.64	.74	27	.00	.00	.18	35	6.5
19	6.8	.00	.00	27	.80	.21	18	.00	.00	.94	22	7.1
20	14	.00	.00	27	1.0	.02	12	.00	.00	3.7	14	7.1
21	18	.00	.32	28	2.1	.00	7.4	.00	.00	5.6	13	5.6
22	20	.00	.94	27	8.6	.00	4.7	.00	.00	7.5	16	3.3
23	21	.00	1.3	25	19	.00	2.6	.00	.00	10	18	1.9
24	18	.00	1.3	23	30	.00	1.6	.00	.00	17	18	1.2
25	14	.00	1.3	22	38	.00	.79	.00	.00	35	20	.61
26	10	.00	.90	20	43	.00	.15	.00	.00	64	34	.14
27	7.1	.00	.58	18	48	.00	.00	.00	.00	91	61	.26
28	4.6	.00	.30	15	64	.00	.00	.00	.00	107	71	1.3
29	2.6	.00	1.7	12	73	.00	.00	.00	.00	116	72	.71
30	1.6	.00	4.8	8.9	---	.00	.00	.00	.00	114	68	.52
31	.70	---	14	6.6	---	.00	---	.00	---	106	60	---
TOTAL	140.28	.10	27.52	856.5	350.14	378.07	519.78	.00	.00	735.89	1948	448.04
MEAN	4.53	.00	.89	27.6	12.1	12.2	17.3	.00	.00	23.7	62.8	14.9
MAX	21	.10	14	57	73	74	57	.00	.00	116	137	49
MIN	.00	.00	.00	6.6	.00	.00	.00	.00	.00	.00	13	.14
AC-FT	278	.2	55	1700	695	750	1030	.00	.00	1460	3860	889

CAL YR 1983 TOTAL 14471.20 MEAN 39.6 MAX 320 MIN .00 AC-FT 28700
WTR YR 1984 TOTAL 5404.32 MEAN 14.8 MAX 137 MIN .00 AC-FT 10720

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.86	2.85	2.80	3.37	3.09	3.69	2.78	2.78	2.80	1.70	3.79	3.50
2	2.83	2.83	2.80	3.50	3.06	3.65	2.77	2.77	2.78	1.74	3.73	3.41
3	2.81	2.81	2.81	3.57	3.03	3.58	2.76	2.75	2.75	1.92	3.66	3.32
4	2.80	2.80	2.81	3.59	3.01	3.51	2.87	2.73	2.73	1.99	3.58	3.22
5	2.78	2.78	2.81	3.58	2.99	3.44	2.87	2.72	2.70	2.47	3.50	3.17
6	2.77	2.77	2.81	3.54	2.96	3.36	2.92	2.73	2.68	2.88	3.44	3.17
7	2.76	2.79	2.80	3.47	2.94	3.28	3.16	2.71	2.64	3.00	3.42	3.15
8	2.76	2.80	2.79	3.40	2.92	3.21	3.32	2.69	2.61	3.06	3.52	3.21
9	2.77	2.80	2.78	3.32	2.91	3.15	3.47	2.69	2.56	3.08	3.71	3.31
10	2.77	2.79	2.77	3.33	2.89	3.10	3.56	2.66	2.52	3.15	3.87	3.37
11	2.76	2.79	2.77	3.37	2.88	3.06	3.58	2.64	2.48	3.18	3.94	3.40
12	2.76	2.79	2.84	3.34	2.87	3.02	3.54	2.61	2.44	3.15	3.97	3.38
13	2.76	2.78	2.81	3.33	2.90	3.02	3.48	2.59	2.38	3.07	3.96	3.34
14	2.76	2.77	2.81	3.32	2.93	3.00	3.42	2.56	2.33	2.98	3.90	3.29
15	2.76	2.77	2.84	3.33	2.94	2.98	3.48	2.52	2.27	2.93	3.80	3.22
16	2.76	2.77	2.84	3.35	2.94	2.96	3.49	2.49	2.20	2.90	3.67	3.16
17	2.78	2.76	2.84	3.35	2.93	2.93	3.43	2.44	2.17	2.88	3.53	3.10
18	2.86	2.75	2.84	3.33	2.92	2.91	3.35	2.38	2.20	2.89	3.39	3.05
19	3.05	2.75	2.85	3.38	2.93	2.89	3.26	2.32	2.15	2.92	3.26	3.06
20	3.19	2.81	2.87	3.38	2.94	2.87	3.17	2.25	2.08	3.01	3.18	3.06
21	3.22	2.80	2.88	3.39	2.97	2.85	3.10	2.18	2.00	3.06	3.16	3.03
22	3.25	2.78	2.91	3.38	3.14	2.84	3.04	2.18	1.92	3.10	3.20	2.97
23	3.26	2.78	2.92	3.37	3.29	2.83	2.99	2.45	1.90	3.15	3.23	2.93
24	3.23	2.80	2.92	3.35	3.42	2.83	2.94	2.53	1.93	3.24	3.22	2.90
25	3.17	2.79	2.92	3.34	3.46	2.81	2.91	2.66	1.87	3.42	3.25	2.87
26	3.12	2.79	2.91	3.32	3.50	2.81	2.88	2.71	1.80	3.62	3.37	2.85
27	3.06	2.80	2.90	3.30	3.53	2.82	2.86	2.79	1.71	3.78	3.58	2.85
28	3.00	2.81	2.89	3.26	3.64	2.81	2.84	2.84	1.64	3.86	3.64	2.90
29	2.96	2.80	2.95	3.21	3.69	2.80	2.82	2.85	1.68	3.90	3.64	2.88
30	2.91	2.80	3.04	3.17	---	2.80	2.80	2.84	1.70	3.89	3.62	2.87
31	2.88	---	3.20	3.12	---	2.79	---	2.82	---	3.85	3.57	---
MEAN	2.92	2.79	2.86	3.37	3.09	3.05	3.13	2.61	2.25	3.02	3.56	3.13
MAX	3.26	2.85	3.20	3.59	3.69	3.69	3.58	2.85	2.80	3.90	3.97	3.50
MIN	2.76	2.75	2.77	3.12	2.87	2.79	2.76	2.18	1.64	1.70	3.16	2.85

CAL YR 1983 MEAN 3.10 MAX 4.64 MIN 1.68
WTR YR 1984 MEAN 2.98 MAX 3.97 MIN 1.64

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-61, 1963, 1966, 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT 18...	1250	2.84	.00	--	--	--	--	--	--
NOV 29...	0940	2.80	.00	241	6.8	18.0	--	--	1.5
JAN 26...	1220	3.32	19	206	7.0	20.5	--	--	--
MAR 20...	1000	2.88	.00	198	6.8	19.0	--	--	3.9
JUN 21...	1430	2.00	.00	--	--	--	100	2.0	--
AUG 08...	1250	3.52	47	135	5.3	25.5	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 18...	--	--	--	--	--	--	--	--	--
NOV 29...	--	--	--	--	--	--	--	--	--
JAN 26...	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--
JUN 21...	28	2.8	7.0	1.1	<.2	14	.20	1.3	122
AUG 08...	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 29...	.01	.010	.02	<.010	--	1.1	1.1	.060	--	.050	--	--
JAN 26...	--	.040	<.10	.050	1.5	1.5	--	.090	.28	.080	--	--
MAR 20...	--	.020	<.10	.100	.90	1.0	--	.120	.37	.100	--	--
JUN 21...	.09	.010	.10	.190	1.3	1.5	1.6	.090	--	.070	130	25
AUG 08...	--	<.010	<.10	<.010	--	1.0	--	.160	--	.110	--	--

WITHLACOOCHEE RIVER BASIN

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL

LOCATION.--Lat 28°21'08", long 82°07'34", in SE¼ sec.32, T.24 S., R.22 E., Pasco County, Hydrologic Unit 03100208, near left bank on downstream side of Lanier Bridge on River Road, 4 mi east of Dade City, and 110 mi upstream from mouth.

DRAINAGE AREA.--390 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to March 1933, July 1958 to October 1962 (discharge measurements), water years 1959-62 (annual maximum), January 1964 to September 1983 (discharge measurements and gage heights only), October 1983 to September 1984.

REVISED RECORDS.--WRD FL 1962: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Feb. 11, 1930, to Mar. 31, 1933, and July 21 to Nov. 19, 1958, nonrecording gage, and Nov. 20, 1958, to Oct. 3, 1962, nonrecording gage and crest-stage gage at same site at datum 64.29 ft higher.

REMARKS.--Discharge computed from graph based on once-daily observer readings.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,900 ft^3/s Mar. 21, 1960, gage height, 78.57 ft, present datum, from rating curve extended above 3,600 ft^3/s; no flow observed in 1962, 1965; minimum gage height observed, 66.39 ft June 1, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 758 ft^3/s Aug. 14; maximum gage height observed, 73.92 ft Aug. 14; minimum daily discharge, 20 ft^3/s June 17; minimum gage height observed, 69.48 ft June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	235	106	325	339	590	105	115	161	49	716	572
2	215	212	108	392	319	596	99	105	144	54	685	545
3	186	192	109	455	295	587	93	96	126	68	657	518
4	158	174	109	502	271	563	128	88	115	87	626	482
5	140	156	106	528	259	530	152	78	97	116	587	438
6	114	142	103	539	251	495	150	73	81	161	539	405
7	100	128	100	528	235	468	174	74	69	196	510	380
8	92	130	98	505	217	425	249	70	60	229	512	365
9	85	137	93	480	217	388	339	67	52	275	528	372
10	86	137	88	460	214	353	425	61	43	313	578	402
11	79	136	85	465	191	325	480	56	37	325	657	438
12	77	132	108	460	174	311	505	54	30	331	724	462
13	74	131	110	445	192	293	536	52	27	327	752	468
14	70	125	108	435	194	273	505	52	25	313	758	458
15	71	120	126	430	198	257	492	52	23	283	752	442
16	81	111	137	430	206	243	505	56	21	251	741	415
17	98	102	149	432	208	223	498	52	20	225	671	382
18	120	96	156	438	203	209	485	49	24	210	596	347
19	173	93	156	468	198	197	450	47	23	206	545	355
20	249	107	166	488	203	185	410	45	22	215	508	351
21	325	115	178	480	209	173	368	44	22	241	470	319
22	375	114	191	472	265	160	331	43	24	275	440	291
23	398	112	200	462	319	148	311	54	38	311	415	271
24	408	113	209	478	368	142	265	78	46	331	408	235
25	405	114	212	455	418	132	225	81	46	351	420	208
26	382	111	203	445	468	125	202	89	42	412	432	185
27	360	108	196	455	518	130	184	116	42	512	455	167
28	341	105	198	425	560	134	167	146	41	596	510	186
29	315	105	223	405	578	119	152	166	40	644	557	179
30	287	104	257	385	---	115	130	172	43	688	584	168
31	261	---	279	362	---	110	---	168	---	716	587	---
TOTAL	6366	3897	4667	14029	8287	8999	9115	2499	1584	9311	17920	10806
MEAN	205	130	151	453	286	290	304	80.6	52.8	300	578	360
MAX	408	235	279	539	578	596	536	172	161	716	758	572
MIN	70	93	85	325	174	110	93	43	20	49	408	167

WTR YR 1984 TOTAL 97480 MEAN 266 MAX 758 MIN 20

WITHLACOOCHEE RIVER BASIN

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.93	71.90	71.01	72.35	72.42	73.40	71.00	71.10	71.44	70.20	73.79	73.34
2	71.80	71.78	71.03	72.65	72.32	73.42	70.94	71.00	71.33	70.31	73.70	73.25
3	71.61	71.65	71.04	72.90	72.20	73.39	70.87	70.91	71.21	70.54	73.62	73.15
4	71.42	71.53	71.04	73.09	72.08	73.31	71.22	70.81	71.10	70.80	73.52	73.01
5	71.30	71.41	71.01	73.19	72.02	73.20	71.38	70.69	70.92	71.11	73.39	72.83
6	71.09	71.31	70.98	73.23	71.98	73.06	71.37	70.61	70.73	71.44	73.23	72.70
7	70.95	71.22	70.95	73.19	71.90	72.95	71.53	70.63	70.56	71.67	73.12	72.60
8	70.86	71.23	70.93	73.10	71.81	72.78	71.97	70.57	70.41	71.87	73.13	72.54
9	70.78	71.28	70.87	73.00	71.81	72.63	72.42	70.53	70.25	72.10	73.19	72.57
10	70.79	71.28	70.81	72.92	71.79	72.49	72.78	70.44	70.08	72.29	73.36	72.69
11	70.70	71.27	70.78	72.94	71.64	72.34	73.00	70.34	69.93	72.35	73.62	72.83
12	70.67	71.25	71.03	72.92	71.53	72.28	73.10	70.29	69.75	72.38	73.81	72.93
13	70.63	71.24	71.05	72.86	71.65	72.19	73.22	70.27	69.68	72.36	73.89	72.95
14	70.57	71.20	71.03	72.82	71.66	72.09	73.10	70.26	69.63	72.29	73.91	72.91
15	70.58	71.15	71.21	72.80	71.69	72.01	73.05	70.27	69.58	72.14	73.89	72.85
16	70.72	71.06	71.28	72.80	71.74	71.94	73.10	70.35	69.49	71.98	73.86	72.74
17	70.93	70.97	71.36	72.81	71.75	71.84	73.07	70.27	69.48	71.85	73.66	72.61
18	71.15	70.91	71.41	72.83	71.72	71.76	73.02	70.20	69.59	71.77	73.42	72.46
19	71.52	70.87	71.41	72.95	71.69	71.68	72.88	70.16	69.58	71.74	73.25	72.50
20	71.97	71.02	71.47	73.03	71.72	71.60	72.72	70.12	69.55	71.80	73.11	72.48
21	72.35	71.10	71.55	73.00	71.76	71.52	72.55	70.09	69.52	71.93	72.96	72.32
22	72.58	71.09	71.64	72.97	72.05	71.43	72.38	70.07	69.59	72.10	72.84	72.18
23	72.67	71.07	71.70	72.93	72.32	71.35	72.28	70.31	69.95	72.28	72.74	72.08
24	72.71	71.08	71.76	72.99	72.55	71.31	72.05	70.68	70.15	72.38	72.71	71.90
25	72.70	71.09	71.78	72.90	72.75	71.25	71.85	70.73	70.14	72.48	72.76	71.75
26	72.61	71.06	71.72	72.86	72.95	71.20	71.71	70.83	70.06	72.73	72.81	71.60
27	72.52	71.03	71.67	72.90	73.15	71.23	71.59	71.11	70.05	73.13	72.90	71.48
28	72.43	71.00	71.69	72.78	73.30	71.26	71.48	71.34	70.02	73.42	73.12	71.61
29	72.30	71.00	71.84	72.70	73.36	71.14	71.38	71.47	70.01	73.58	73.29	71.56
30	72.16	70.99	72.01	72.62	---	71.10	71.23	71.51	70.08	73.71	73.38	71.49
31	72.03	---	72.12	72.53	---	71.05	---	71.49	---	73.79	73.39	---
MEAN	71.58	71.20	71.33	72.89	72.11	72.07	72.14	70.63	70.13	72.08	73.33	72.46
MAX	72.71	71.90	72.12	73.23	73.36	73.42	73.22	71.51	71.44	73.79	73.91	73.34
MIN	70.57	70.87	70.78	72.35	71.53	71.05	70.87	70.07	69.48	70.20	72.71	71.48

WTR YR 1984 MEAN 71.83 MAX 73.91 MIN 69.48

AVAILABLE

WITHLACOOCHEE RIVER BASIN

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT 04...	1240	71.45	150	105	6.1	26.0	--	.60	3.4
NOV 29...	1035	71.39	105	153	7.0	19.0	--	--	3.6
JAN 27...	1000	72.82	424	116	6.5	19.5	--	1.0	4.7
MAR 20...	1320	71.59	172	145	6.5	21.0	--	--	5.3
JUN 22...	1230	69.64	26	240	6.6	28.5	80	<1.0	3.6
AUG 09...	0945	73.19	519	83	5.4	26.5	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 04...	--	--	--	--	--	--	--	--	--
NOV 29...	--	--	--	--	--	--	--	--	--
JAN 27...	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--
JUN 22...	35	3.4	8.8	.60	<.2	17	.10	6.1	182
AUG 09...	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT 04...	.01	.010	.02	.010	1.2	1.2	1.2	.100	--	.080
NOV 29...	--	.010	<.02	<.010	--	.78	--	.070	--	.020
JAN 27...	--	.040	<.10	.020	1.2	1.2	--	.070	.21	.050
MAR 20...	--	--	--	--	--	--	--	--	--	--
JUN 22...	--	<.010	.10	.110	.89	1.0	1.1	.040	--	.040
AUG 09...	--	.010	<.10	<.010	--	.90	--	.100	--	.060

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
NOV										
29...	--	--	--	--	--	--	--	--	--	--
JAN										
27...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	20	<100	--	--	--	10	--	30	10	--
JUN										
22...	--	--	2	200	1	--	42	100	21	18
AUG										
09...	--	--	--	--	--	--	--	--	--	--

WITHLACOOCHEE RIVER BASIN

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-61, 1963, 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1966 to March 1971, November 1972 to current year.
WATER TEMPERATURE: July 1966 to March 1971, November 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 437 micromhos May 1, 1976; minimum observed, 45 micromhos Sept. 17,18, 1968.
WATER TEMPERATURE: Maximum observed, 34.0°C July 9, 1969, June 17,18, July 10, 1981; minimum observed, 6.0°C Jan. 20, 1977.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 44 micromhos was observed on Oct 14, 1959.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 247 micromhos Jan. 22; minimum observed, 64 micromhos Aug. 14.
WATER TEMPERATURE: Maximum observed, 28.0°C many days June, July, August; minimum observed, 7.0°C Dec. 26.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

MAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	131	180	145	123	109	158	128	129	---	70	75
2	---	125	180	127	120	---	159	129	129	204	71	---
3	92	129	183	116	121	104	161	135	129	---	74	72
4	94	132	---	113	122	---	147	139	130	211	73	---
5	---	132	186	111	134	108	136	139	133	178	75	78
6	100	---	190	103	124	---	144	147	140	149	75	79
7	104	133	190	109	126	106	151	---	141	131	78	83
8	108	136	190	---	127	106	---	153	151	---	77	81
9	---	152	190	109	129	108	107	155	156	110	76	83
10	117	154	190	109	---	120	95	154	166	103	73	82
11	120	163	190	106	129	110	92	156	163	100	68	78
12	124	168	175	108	134	121	86	165	175	100	---	77
13	128	169	165	111	133	125	84	---	176	98	65	---
14	129	170	165	112	132	118	84	180	185	101	64	81
15	133	163	171	112	---	119	86	---	189	---	65	75
16	---	---	175	112	139	125	86	175	185	108	67	81
17	128	176	170	112	139	124	88	175	---	112	70	---
18	130	174	168	112	138	---	89	180	205	118	71	78
19	127	182	168	110	---	126	92	183	211	119	---	79
20	112	---	165	---	---	130	95	183	218	119	---	83
21	103	173	---	109	136	128	---	188	234	114	77	83
22	95	173	158	110	133	134	---	---	240	---	77	86
23	90	180	154	---	124	136	102	185	247	103	79	---
24	90	---	150	---	125	137	103	166	236	98	80	87
25	96	181	---	113	120	---	108	174	238	98	78	92
26	---	179	145	113	134	---	108	180	228	91	79	95
27	98	180	144	113	---	143	114	---	224	80	79	99
28	103	183	145	115	106	142	114	155	---	80	73	99
29	118	183	141	116	106	151	120	140	221	---	70	102
30	100	181	140	---	---	153	122	132	226	73	75	---
31	119	---	140	118	---	160	---	128	---	72	93	---

02311500 WITHLACOOCHEE RIVER NEAR DADE CITY, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	23.0	18.0	11.0	14.0	13.0	18.0	25.0	23.0	---	27.0	27.0
2	---	22.0	20.0	12.0	15.0	14.0	19.0	25.0	24.0	25.0	27.0	---
3	25.0	22.0	21.0	12.0	16.0	14.0	20.0	25.0	24.0	---	28.0	27.0
4	25.0	22.0	---	11.0	17.0	---	21.0	25.0	25.0	27.0	28.0	---
5	---	22.0	23.0	12.0	20.0	21.0	20.0	27.0	24.0	27.0	28.0	26.5
6	26.0	---	24.0	12.0	14.0	---	20.0	26.0	27.0	27.0	28.0	26.0
7	26.0	19.0	20.0	13.0	13.0	20.0	19.0	---	26.0	27.0	28.0	25.5
8	25.0	21.0	16.0	---	14.0	18.0	---	26.0	27.0	---	28.0	24.0
9	---	21.0	16.0	14.0	14.0	17.0	20.0	25.0	27.0	27.0	28.0	24.5
10	25.0	23.0	17.0	14.0	---	18.0	21.0	25.0	27.0	27.0	28.0	25.5
11	26.0	20.0	24.0	13.0	17.0	18.0	20.0	24.0	27.0	27.0	27.0	26.0
12	26.0	18.0	18.0	13.0	18.0	18.0	21.0	24.0	26.0	27.0	---	27.0
13	25.0	19.0	18.0	13.0	18.0	20.0	23.0	---	26.0	26.0	27.0	---
14	25.0	18.0	18.0	12.0	20.0	21.0	23.0	25.0	26.0	26.0	28.0	26.0
15	25.0	19.0	17.0	13.0	---	21.0	---	---	27.0	---	28.0	27.0
16	---	---	16.0	14.0	19.0	20.0	20.0	25.0	25.0	27.0	28.0	26.0
17	25.0	16.0	16.0	16.0	20.0	20.0	19.0	23.0	---	27.0	28.0	---
18	25.0	16.0	19.0	17.0	20.0	---	19.0	22.0	26.0	27.0	27.0	26.0
19	26.0	17.0	18.0	17.0	---	22.0	19.0	22.0	28.0	26.0	---	25.0
20	26.0	---	19.0	---	---	21.0	21.0	24.0	28.0	25.0	---	25.0
21	26.0	19.0	---	12.0	21.0	19.0	23.0	25.0	28.0	27.0	26.0	25.0
22	26.0	19.0	19.0	13.0	2 .0	20.0	---	---	27.0	---	27.0	26.0
23	26.0	20.0	20.0	---	19.0	19.0	23.0	25.0	26.0	26.0	26.0	---
24	25.0	---	17.0	---	18.0	21.0	21.0	24.0	27.0	28.0	26.0	26.0
25	23.0	18.0	---	19.0	18.0	---	22.0	25.0	28.0	26.0	26.0	26.0
26	---	18.0	7.0	20.0	22.0	---	22.0	24.0	28.0	26.0	26.0	26.0
27	21.0	20.0	8.0	20.0	---	21.0	24.0	---	28.0	26.0	26.0	25.0
28	21.0	20.0	13.0	18.0	16.0	23.0	25.0	25.0	---	27.0	26.0	25.0
29	21.0	19.0	15.0	17.0	16.0	20.0	25.0	25.0	26.0	---	26.0	27.0
30	22.0	12.0	12.0	---	---	19.0	25.0	25.0	26.0	26.0	26.0	---
31	22.0	---	10.0	15.0	---	19.0	---	19.0	---	28.0	26.0	---

WITHLACOOCHEE RIVER BASIN

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL

LOCATION.--Lat 28°28'47", long 82°10'40", in SE¼ sec.14, T.23 S., R.21 E., Hernando County, Hydrologic Unit 03100208, on right bank at downstream side of bridge on U.S. Highway 301, 1.6 mi northeast of Trilby, 10 mi upstream from Little Withlacoochee River, and 93 mi upstream from mouth.

DRAINAGE AREA.--570 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to February 1929, February 1930 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 49.27 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1938, nonrecording gage at site 1.5 mi downstream at datum 0.12 ft lower.

REMARKS.--Records good. High-water diversion above station into Hillsborough River basin through Withlacoochee-Hillsborough overflow near Richland (station 02311000). Records include considerable amount of waste water diverted from ground-water supplies during packing season by Evans and Pasco Packing Companies, in SW¼ sec.23, T.24 S., R.21 E., 5 mi upstream from Withlacoochee River.

AVERAGE DISCHARGE.--54 years (water years 1931-84), 355 ft³/s, 257,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,840 ft³/s June 21, 1934, gage height, 20.5 ft, site and datum then in use; minimum daily discharge, 6.3 ft³/s June 17-20,22,23, 1981; minimum gage height observed, 0.54 ft June 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 612 ft³/s Mar. 6, gage height, 7.45 ft; minimum daily discharge, 38 ft³/s June 17, estimated; minimum gage height, 1.20 ft June 17, estimated.

Discharge measurements and water-quality records of Dade City Canal near Dade City (Evans and Pasco Packing Co. Canals combine to form Dade City Canal), for the water year 1983-84 are given in the table below.

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
05...	1215	69.46	33	180	6.7	25.5	1.9
DEC							
01...	0940	69.52	16	298	7.1	18.5	--
JAN							
27...	1150	69.95	48	--	--	24.5	--
MAR							
22...	0910	69.61	34	--	--	23.0	--
JUN							
25...	1135	68.00	9.5	--	--	29.0	--

WITHLACOOCHEE RIVER BASIN

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549	384	148	441	518	527	191	204	177	95	417	444
2	509	371	148	442	503	558	176	179	178	110	450	447
3	467	354	149	445	488	584	165	162	176	126	486	450
4	425	335	147	453	474	600	190	149	169	141	510	452
5	390	316	147	471	455	610	232	138	161	161	527	452
6	355	295	146	492	433	612	245	130	147	176	534	450
7	320	274	144	514	411	606	242	122	133	190	535	441
8	285	252	142	533	389	594	235	111	119	203	535	429
9	254	235	138	547	372	580	228	106	103	216	531	416
10	248	220	136	560	355	558	235	106	89	228	522	400
11	234	208	132	578	339	534	262	102	77	237	515	391
12	226	199	217	583	324	508	291	97	68	246	510	385
13	222	193	234	583	322	488	325	92	59	253	508	380
14	211	190	222	580	342	463	361	85	53	259	505	378
15	198	185	222	574	345	437	398	79	48	262	508	376
16	198	179	230	567	340	408	422	74	43	262	522	375
17	197	176	230	560	333	388	438	82	38	264	539	375
18	198	171	233	552	326	371	447	77	44	264	558	375
19	198	164	235	553	303	349	451	71	53	262	571	372
20	198	156	234	553	279	329	451	67	57	257	575	366
21	200	147	235	562	273	314	447	64	59	252	576	350
22	210	163	239	566	285	294	439	62	58	248	574	334
23	228	183	244	566	303	277	425	91	55	244	561	315
24	284	184	247	563	315	265	404	107	56	246	548	297
25	315	178	246	564	330	252	377	115	62	266	532	281
26	343	162	243	565	359	234	350	119	64	295	516	268
27	366	153	243	565	400	228	322	123	64	325	498	257
28	383	150	245	561	446	230	292	132	62	342	484	266
29	393	152	304	554	492	228	264	139	71	351	472	248
30	396	151	408	545	---	216	235	157	83	370	460	230
31	393	---	436	533	---	204	---	172	---	391	450	---
TOTAL	9394	6480	6724	16725	10854	12846	9540	3514	2626	7542	16029	11000
MEAN	303	216	217	540	374	414	318	113	87.5	243	517	367
MAX	549	384	436	583	518	612	451	204	178	391	576	452
MIN	197	147	132	441	273	204	165	62	38	95	417	230
AC-FT	18630	12850	13340	33170	21530	25480	18920	6970	5210	14960	31790	21820

CAL YR 1983 TOTAL 164036 MEAN 449 MAX 1400 MIN 55 AC-FT 325400
WTR YR 1984 TOTAL 113274 MEAN 309 MAX 612 MIN 38 AC-FT 224700

WITHLACOOCHEE RIVER BASIN

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.76	5.41	2.98	6.12	6.77	6.84	3.57	3.71	3.40	2.20	5.90	6.15
2	6.46	5.29	2.98	6.13	6.64	7.08	3.39	3.43	3.42	2.45	6.20	6.17
3	6.13	5.13	2.99	6.15	6.52	7.26	3.25	3.21	3.39	2.71	6.50	6.20
4	5.79	4.95	2.97	6.22	6.40	7.37	3.56	3.04	3.30	2.93	5.70	6.22
5	5.46	4.76	2.97	6.37	6.24	7.43	4.02	2.89	3.20	3.20	6.84	6.22
6	5.14	4.55	2.95	6.55	6.05	7.45	4.17	2.77	3.01	3.39	6.89	6.20
7	4.80	4.34	2.93	6.73	5.84	7.41	4.13	2.65	2.82	3.55	6.90	6.12
8	4.45	4.12	2.90	6.88	5.64	7.33	4.06	2.46	2.60	3.70	6.90	6.01
9	4.14	3.95	2.86	6.99	5.47	7.23	3.98	2.39	2.34	3.84	6.87	5.89
10	4.08	3.79	2.84	7.09	5.30	7.08	4.06	2.38	2.10	3.98	6.80	5.75
11	3.94	3.65	2.80	7.22	5.14	6.89	4.35	2.32	1.90	4.08	6.74	5.66
12	3.85	3.55	3.86	7.26	4.99	6.68	4.66	2.24	1.75	4.18	6.70	5.60
13	3.80	3.48	4.04	7.26	4.97	6.52	5.00	2.15	1.60	4.26	6.68	5.55
14	3.68	3.45	3.92	7.23	5.17	6.31	5.36	2.03	1.50	4.32	6.66	5.53
15	3.53	3.40	3.91	7.19	5.20	6.08	5.73	1.93	1.40	4.35	6.68	5.51
16	3.54	3.33	4.00	7.15	5.15	5.82	5.95	1.85	1.30	4.36	6.80	5.50
17	3.52	3.30	4.00	7.09	5.08	5.63	6.09	1.99	1.20	4.38	6.93	5.50
18	3.53	3.24	4.03	7.03	5.01	5.46	6.17	1.90	1.33	4.38	7.08	5.50
19	3.54	3.16	4.06	7.04	4.78	5.24	6.21	1.80	1.50	4.36	7.17	5.47
20	3.54	3.06	4.04	7.04	4.54	5.04	6.21	1.74	1.57	4.30	7.20	5.41
21	3.56	2.97	4.05	7.10	4.48	4.89	6.17	1.68	1.60	4.25	7.21	5.25
22	3.67	3.15	4.10	7.14	4.60	4.69	6.10	1.65	1.58	4.20	7.19	5.10
23	3.86	3.37	4.15	7.14	4.78	4.52	5.97	2.13	1.53	4.16	7.10	4.90
24	4.44	3.38	4.19	7.12	4.90	4.39	5.78	2.40	1.55	4.18	7.00	4.72
25	4.75	3.32	4.18	7.12	5.05	4.24	5.52	2.54	1.65	4.40	6.88	4.56
26	5.02	3.14	4.15	7.13	5.34	4.04	5.25	2.60	1.69	4.70	6.75	4.42
27	5.24	3.03	4.14	7.13	5.75	3.98	4.97	2.67	1.68	5.00	6.60	4.30
28	5.39	3.00	4.17	7.10	6.16	4.00	4.68	2.80	1.65	5.17	6.48	4.40
29	5.48	3.02	4.78	7.04	6.55	3.98	4.38	2.90	1.80	5.26	6.38	4.20
30	5.51	3.01	5.82	6.97	---	3.85	4.06	3.15	2.00	5.45	6.28	4.00
31	5.48	---	6.07	6.88	---	3.71	---	3.34	---	5.66	6.20	---
MEAN	4.58	3.71	3.80	6.92	5.47	5.76	4.89	2.48	2.05	4.11	6.75	5.40
MAX	6.76	5.41	6.07	7.26	6.77	7.45	6.21	3.71	3.42	5.66	7.21	6.22
MIN	3.52	2.97	2.80	6.12	4.48	3.71	3.25	1.65	1.20	2.20	5.90	4.00

CAL YR 1983 MEAN 5.47 MAX 11.11 MIN 1.68
WTR YR 1984 MEAN 4.66 MAX 7.45 MIN 1.20

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1958-61, 1963, 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)
OCT						
05...	1500	5.42	382	132	6.7	26.0
DEC						
02...	1020	2.98	143	249	6.5	18.5
JAN						
31...	1045	6.90	524	--	--	16.0
MAR						
23...	1230	4.53	280	--	--	19.0
JUN						
26...	1240	1.69	73	--	--	28.5

WITHLACOOCHEE RIVER BASIN

02312140 BAYROOT SLOUGH HEADWATERS NEAR BAY LAKE, FL

LOCATION.--Lat 28°27'23", long 81°55'14", in NW¼ sec.28, T.23 S., R.24 E., Lake County, Hydrologic Unit 03100208, at bridge on State Highway 565, 0.1 mi upstream from Seaboard Coast Line Railroad bridge, and 1.5 mi southwest of town of Bay Lake.

DRAINAGE AREA.--18 mi^2, approximately.

PERIOD OF RECORD.--
DISCHARGE: 1960-61 (one or two discharge measurements each water year), October 1963 to current year (discharge measurements only).
WATER TEMPERATURE: October 1960 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

REMARKS.--Discharge measurements made along railroad fill from 1.0 mi north to 0.8 mi south of State Highway 565, which includes Bayroot Slough, Bayroot Drain and Cam Slough.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum discharge measured, 202 ft^3/s Sept. 14, 1960; no flow observed most years.
WATER TEMPERATURE: (1975-84); Maximum observed, 27.0°C Aug. 22, 1978, minimum observed, 11.0°C Jan. 11, 1977.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)
OCT 06...	1245	5.5	--
DEC 06...	1200	.00	--
FEB 02...	1200	8.4	--
MAR 29...	1200	.00	--
JUN 27...	1650	.00	--
AUG 15...	1030	14	--

WITHLACOOCHEE RIVER BASIN

02312180 LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL

LOCATION.--Lat 28°31'17", long 82°03'18", in NE¼ sec.1, T.23 S., R.22 E., Sumter County, Hydrologic Unit 03100208, near center of span on downstream side of bridge on State Highway 471, 2.3 mi south of Tarrytown, 3.1 mi southwest of Linden, and 14 mi upstream from mouth.

DRAINAGE AREA.--85 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 80.00 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair. Above bankfull stage, discharge measurements are made along State Highway 471 and include all flow from 2.3 mi north to 2.8 mi south of gaging station.

AVERAGE DISCHARGE.--18 years, 43.4 ft³/s, 6.93 in/yr, 31,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s Sept. 28, 1979, gage height, 6.58 ft; no flow for many days most years; river dry at gage for many days in 1967, 1968, 1971, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 109 ft³/s Jan. 2,3, gage height, 4.92 ft; no flow for many days; minimum gage height, 2.81 ft June 22, July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	7.4	2.6	104	58	83	21	2.1	6.7	.30	2.5	18
2	74	6.4	2.4	107	55	86	18	1.8	4.6	.22	3.5	16
3	70	5.6	2.4	107	53	88	16	1.5	3.0	.70	4.0	13
4	65	4.8	2.5	105	51	87	27	1.2	2.0	.64	5.1	11
5	62	4.3	2.7	102	48	85	33	1.3	1.3	.32	6.3	13
6	60	3.9	2.5	96	44	82	29	1.9	.89	.18	8.3	16
7	56	3.8	2.1	91	41	78	27	1.2	.65	.11	8.7	14
8	54	4.0	1.9	84	37	72	26	.89	.44	.09	11	10
9	52	4.0	1.8	79	35	66	30	.68	.28	.08	14	9.0
10	50	3.8	1.8	82	33	62	36	.52	.15	.07	16	9.4
11	48	3.6	1.8	85	31	58	32	.39	.10	.07	20	7.4
12	49	3.4	25	79	30	58	29	.27	.08	.05	26	6.1
13	54	3.2	27	80	34	64	26	.17	.06	.03	30	5.3
14	56	3.0	25	79	44	68	25	.11	.04	.01	29	4.5
15	56	2.9	33	76	44	70	29	.09	.02	.00	30	3.8
16	56	3.2	36	74	44	68	27	.08	.00	.00	30	3.3
17	54	3.0	37	72	44	64	25	.06	.00	.00	31	3.0
18	50	2.7	37	70	42	60	21	.03	.00	.00	32	2.9
19	45	2.5	36	75	42	52	18	.01	.00	.00	32	3.3
20	41	3.5	36	77	41	45	16	.00	.00	.00	31	4.2
21	36	5.0	35	83	41	40	14	.00	.00	.00	36	4.6
22	33	4.8	33	83	54	37	11	.00	.00	.00	39	4.7
23	30	4.6	32	82	58	34	9.6	.68	.01	.31	33	4.6
24	27	4.6	30	81	55	32	8.1	8.9	.02	1.0	29	4.6
25	24	4.6	27	80	54	34	6.7	27	.01	1.1	29	4.6
26	21	4.0	25	79	53	35	5.7	26	.00	1.2	32	4.5
27	18	3.4	24	77	61	34	4.7	23	.00	1.9	29	5.9
28	14	3.0	23	74	84	33	3.8	19	.03	1.9	26	12
29	12	2.7	57	69	82	29	3.1	15	.47	1.5	25	9.4
30	9.8	2.8	104	66	---	26	2.6	13	.55	1.5	23	8.0
31	8.7	---	101	62	---	23	---	9.6	---	2.3	21	---
TOTAL	1365.5	118.5	807.5	2560	1393	1753	580.3	156.48	21.40	15.58	692.4	236.1
MEAN	44.0	3.95	26.0	82.6	48.0	56.5	19.3	5.05	.71	.50	22.3	7.87
MAX	80	7.4	104	107	84	88	36	27	6.7	2.3	39	18
MIN	8.7	2.5	1.8	62	30	23	2.6	.00	.00	.00	2.5	2.9
CFSM	.52	.05	.31	.97	.56	.66	.23	.06	.01	.01	.26	.09
IN.	.60	.05	.35	1.12	.61	.77	.25	.07	.01	.01	.30	.10
AC-FT	2710	235	1600	5080	2760	3480	1150	310	42	31	1370	468

CAL YR 1983 TOTAL 32192.33 MEAN 88.2 MAX 318 MIN .12 CFSM 1.04 IN. 14.09 AC-FT 63850
WTR YR 1984 TOTAL 9699.76 MEAN 26.5 MAX 107 MIN .00 CFSM .31 IN. 4.25 AC-FT 19240

AVAILABLE

02312180 LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT								
20...	1045	4.49	41	49	7.4	25.5	3.2	--
NOV								
28...	1120	3.82	3.0	66	6.4	20.0	3.7	--
FEB								
01...	1230	4.65	59	66	5.9	11.5	8.8	<.010
MAR								
28...	0920	4.50	34	67	5.4	21.5	4.9	.010
AUG								
13...	1010	4.40	29	67	5.4	25.0	4.2	<.010

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT							
20...	--	--	--	--	--	--	--
NOV							
28...	--	--	--	--	--	--	--
FEB							
01...	<.10	<.010	--	1.0	.030	.09	<.010
MAR							
28...	<.10	<.010	--	.90	<.010	--	<.010
AUG							
13...	<.10	.020	1.1	1.1	.020	--	<.010

02312194 BIG GANT CANAL AT STRUCTURE S-11, NEAR WEBSTER, FL

LOCATION.--Lat 28°34'47", long 82°05'45", in NW¼ sec.15, T.22 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on left bank 10 ft downstream from bridge on State Highway 478A, 400 ft upstream from structure S-11, 0.5 mi downstream from Big Gant Lake, 3.2 mi southwest of Webster, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--18 mi², approximately.

PERIOD OF RECORD.--
DISCHARGE: June 1970 to current year (discharge measurements and thrice-weekly gage heights only), incomplete.
WATER TEMPERATURE: October 1970 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Elevation of Big Gant Lake and flow at station regulated by manipulation of stoplogs in structure S-11; crest of weir is at elevation 72.6 ft with all stoplogs out and 75.8 ft with all stoplogs in place.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum discharge measured, 42 ft³/s Mar. 8, 1983; maximum gage height observed, 76.80 ft Sept. 26, 1982; no flow observed in many years; minimum gage height observed, 69.13 ft May 29, 1981.
WATER TEMPERATURE: (1975-84); Maximum observed, 32.5°C June 2, 1982; minimum observed, 3.0°C Jan. 12, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)
OCT			
12...	1324	7.0	27.0
DEC			
05...	1140	6.7	23.0
FEB			
01...	1010	22	14.0
MAR			
03...	0910	[illegible]	22.0
JUL			
03...	1220	[illegible]	28.0
AUG			
14...	1030	3.9	30.0

WITHLACOOCHEE RIVER BASIN

02312194 BIG GANT CANAL AT STRUCTURE S-11, NEAR WEBSTER, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---		76.08	---	---	---	76.06	---	---	
2	76.04	75.94	75.92		---	---	---	---	---	---	---	
3	---	---	---		---	76.00	---	---	---	76.06	---	
4	---	75.94	---		---	---	76.20	---	---	---	---	
5	76.00	---	75.92		---	---	---	---	---	---	---	
6	---	---	---		---	---	---	---	---	---	---	
7	76.02	75.94	75.92		---	---	---	76.10	---	---	---	
8	---	---	---		---	---	---	---	76.00	---	---	
9	---	75.94	75.92		---	---	---	---	---	---	---	
10	76.06	---	---		---	---	---	---	---	---	---	
11	---	75.94	---		---	---	---	76.06	---	---	---	
12	76.08	---	76.24		---	---	---	---	76.00	---	---	
13	---	---	---		---	---	76.10	---	---	---	---	
14	76.10	75.94	76.18		---	---	---	---	---	---	75.90	
15	---	---	---		---	---	---	---	76.00	---	---	
16	---	75.94	76.12		---	---	76.06	---	---	---	---	
17	76.14	---	---		---	---	---	---	---	---	---	
18	---	75.94	---		---	---	---	76.04	---	---	---	
19	76.00	---	76.10		---	---	---	---	---	---	---	
20	---	---	---		---	---	---	---	---	---	---	
21	75.96	75.94	76.08		---	---	---	---	---	---	---	
22	---	---	---		---	---	---	---	---	---	---	
23	---	75.94	---		---	---	76.04	---	---	---	---	
24	75.92	---	76.04		---	---	---	---	---	---	---	
25	---	75.94	---		---	---	---	76.26	---	---	---	
26	75.94	---	76.04		---	---	---	---	---	---	---	
27	---	---	---		---	---	76.06	---	---	---	---	
28	75.96	75.92	76.02		---	---	---	---	---	---	---	
29	---	---	---		---	---	---	---	---	---	---	
30	---	75.92	---		---	---	76.08	---	---	---	---	
31	75.96	---	76.40		---	---	---	---	---	---	---	

WITHLACOOCHEE RIVER BASIN

02312197 BIG GANT CANAL AT STRUCTURE WC-2, AT RERDELL, FL

LOCATION.--Lat 28°34'16", long 82°08'52", in SW¼ sec.18, T.22 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on left bank 75 ft upstream from structure WC-2, 0.1 mi upstream from mouth, and 0.5 mi east of Rerdell.

DRAINAGE AREA.--30 mi², approximately.

PERIOD OF RECORD.--
DISCHARGE: June 1970 to current year (discharge measurements and thrice-weekly gage heights only), incomplete.
WATER TEMPERATURE: October 1975 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Soil Conservation Service bench mark). Auxiliary gage at downstream side of structure.

REMARKS.--Flow at station regulated by manipulation of gates in spillway; flow over closed gates occurs at elevation 65.55 ft.

EXTREMES FOR PERIOD OF RECORD.--
DISCHARGE: Maximum discharge measured, 83 ft³/s July 8, 1974; maximum gage height observed, 70.00 ft Sept. 30, 1979; no flow observed in 1981; minimum gage height observed, 64.60 ft June 5, 1981.
WATER TEMPERATURE: (1975-84); Maximum temperature observed, 32.5°C July 1, 1980; minimum observed, 5.0°C Jan. 12, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)
OCT				MAR			
07...	1253	27	26.0	26...	1215	31	24.5
DEC				JUL			
05...	0940	34	22.0	03...	1330	33	28.0
JAN				AUG			
31...	1440	33	17.0	14...	1230	34	31.0

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312197 BIG CANT CANAL AT STRUCTURE WC-2, AT RERDELL, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	65.86	---		---	---	---	65.76	---	---	
2	65.88	---	65.88	---		---	---	---	---	---	---	
3	---	---	---	---		---	---	---	---	65.83	---	
4	---	65.90	---	---		---	65.86	---	---	---	---	
5	65.88	---	65.76	---		---	---	---	---	---	---	
6	---	---	---	---		---	---	---	---	---	---	
7	65.88	65.78	65.76	---		---	---	65.80	---	---	---	
8	---	---	---	---		---	---	---	65.82	---	---	
9	---	65.80	65.72	---		---	---	---	---	---	---	
10	65.88	---	---	---		---	---	---	---	---	---	
11	---	65.80	---	---		---	---	65.78	65.80	---	---	
12	65.88	---	65.94	---		---	---	---	---	---	---	
13	---	---	---	---		---	65.88	---	---	---	---	
14	65.88	65.80	65.92	---		---	---	---	---	---	65.82	
15	---	---	---	---		---	---	---	65.82	---	---	
16	---	65.80	65.92	---		---	65.96	---	---	---	---	
17	65.90	---	---	---		---	---	---	---	---	---	
18	---	65.80	---	---		---	---	65.80	---	---	---	
19	65.90	---	65.90	---		---	---	---	---	---	---	
20	---	---	---	---		---	---	---	---	---	---	
21	65.90	65.82	65.90	---		---	---	---	---	---	---	
22	---	---	---	---		---	---	---	---	---	---	
23	---	65.82	65.80	---		---	65.78	---	---	---	---	
24	65.90	---	---	---		---	---	---	---	---	---	
25	---	65.84	---	---		---	---	65.96	---	---	---	
26	65.90	---	65.80	---		65.84	---	---	---	---	---	
27	---	---	---	---		---	65.78	---	---	---	---	
28	65.90	65.84	65.80	---		---	---	---	---	---	---	
29	---	---	---	---		---	---	---	---	---	---	
30	---	---	---	---		---	65.78	---	---	---	---	
31	65.90	---	66.40	65.84		---	---	---	---	---	---	

02312198 BIG GANT CANAL BELOW STRUCTURE WC-2, AT RERDELL, FL

LOCATION.--Lat 28°34'16", long 82°08'54", in SW¼ sec.18, T.22 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on left bank 75 ft downstream from structure WC-2, 0.1 mi upstream from mouth, and 0.5 mi east of Rerdell.

DRAINAGE AREA.--30 mi², approximately.

PERIOD OF RECORD.--June 1970 to current year (thrice-weekly gage heights only), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Soil Conservation Service bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 70.00 ft Sept. 30, 1979; minimum observed, 61.40 ft July 10, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 66.36 ft Dec. 31; minimum observed, 63.50 ft June 15.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	64.12	---		---	---	---	64.26	---	---	
2	65.30	---	64.46	---		---	---	---	---	---	---	
3	---	---	---	---		---	---	---	---	64.08	---	
4	---	64.02	---	---		---	64.50	---	---	---	---	
5	65.18	---	64.46	---		---	---	---	---	---	---	
6	---	---	---	---		---	---	---	---	---	---	
7	65.14	64.18	64.46	---		---	---	64.16	---	---	---	
8	---	---	---	---		---	---	---	63.66	---	---	
9	---	64.16	64.46	---		---	---	---	---	---	---	
10	65.14	---	---	---		---	---	---	---	---	---	
11	---	64.12	---	---		---	---	64.00	63.60	---	---	
12	65.12	---	64.89	---		---	---	---	---	---	---	
13	---	---	---	---		---	65.02	---	---	---	---	
14	65.10	64.06	65.12	---		---	---	---	---	---	64.40	
15	---	---	---	---		---	---	---	63.50	---	---	
16	---	64.06	65.16	---		---	65.44	---	---	---	---	
17	65.08	---	---	---		---	---	---	---	---	---	
18	---	64.06	---	---		---	---	63.90	---	---	---	
19	65.00	---	65.20	---		---	---	---	---	---	---	
20	---	---	---	---		---	---	---	---	---	---	
21	64.96	64.06	65.10	---		---	---	---	---	---	---	
22	---	---	---	---		---	---	---	---	---	---	
23	---	64.04	64.98	---		---	64.56	---	---	---	---	
24	64.94	---	---	---		---	---	---	---	---	---	
25	---	64.00	---	---		---	---	64.50	---	---	---	
26	64.56	---	64.90	---		64.72	---	---	---	---	---	
27	---	---	---	---		---	64.28	---	---	---	---	
28	64.40	64.00	64.78	---		---	---	---	---	---	---	
29	---	---	---	---		---	---	---	---	---	---	
30	---	---	---	---		---	64.20	---	---	---	---	
31	64.18	---	66.36	65.38		---	---	---	---	---	---	

WITHLACOOCHEE RIVER BASIN

02312200 LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL

LOCATION.--Lat 28°34'21", long 82°09'20", in SE¼ sec.13, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, near center of span on downstream side of bridge on U.S. Highway 301, 0.2 mi north of Rerdell, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--145 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.02 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Above bankfull stage, discharge measurements are made along U.S. Highway 301 and include all flow from 3.4 mi north to 1.8 mi south of gaging station.

AVERAGE DISCHARGE.--26 years, 85.1 ft^3/s, 7.97 in/yr, 61,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft^3/s Mar. 19, 1960, gage height, 12.32 ft; no flow for many days in 1961, 1962, 1977, 1981; river dry at gage for many days in 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft^3/s Dec. 31, Jan. 1, gage height, 5.15 ft; minimum, 5.3 ft^3/s Sept. 26, gage height, 1.90 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	28	21	237	110	145	50	23	30	18	20	33
2	104	26	20	223	104	185	46	22	25	21	27	30
3	100	24	19	211	101	190	44	28	23	23	26	27
4	97	24	19	203	99	190	91	25	19	29	23	25
5	93	23	22	195	95	185	103	25	17	24	20	23
6	88	19	19	185	90	180	87	30	15	21	22	22
7	82	19	18	174	84	170	79	30	13	19	20	22
8	75	21	17	162	80	160	72	28	12	17	18	21
9	72	20	16	150	76	150	102	24	11	15	18	21
10	70	19	16	153	72	140	140	21	11	15	17	23
11	66	18	16	159	68	130	114	19	9.2	14	17	21
12	67	17	55	152	64	120	102	17	8.6	13	17	19
13	79	16	58	151	72	130	94	16	8.1	12	18	18
14	84	16	66	148	92	135	96	14	7.8	11	20	17
15	82	14	79	143	94	135	145	13	7.3	11	23	15
16	84	15	84	139	94	130	122	13	7.0	11	24	13
17	82	14	85	134	92	120	103	11	7.0	10	26	11
18	81	13	86	130	90	115	89	10	7.9	10	29	11
19	75	12	85	150	88	105	78	9.8	9.3	12	31	10
20	71	16	86	150	86	95	67	9.9	7.7	14	32	9.6
21	65	24	84	158	86	88	58	9.2	6.9	13	40	8.9
22	60	22	81	159	115	80	51	8.3	7.4	12	58	8.2
23	60	22	79	158	125	74	47	14	13	12	56	8.3
24	56	22	75	152	120	69	43	21	14	12	51	8.2
25	51	22	68	148	115	65	39	38	13	11	53	7.1
26	46	20	61	144	110	62	36	29	13	11	63	5.8
27	41	20	58	140	130	69	33	28	11	13	72	7.0
28	36	20	58	134	135	68	30	36	9.9	13	59	12
29	33	21	145	127	140	63	27	39	12	11	49	14
30	31	22	215	121	---	59	25	38	17	12	42	14
31	29	---	235	115	---	54	---	35	---	18	37	---
TOTAL	2169	589	2046	4905	2827	3661	2213	684.2	373.1	458	1028	485.1
MEAN	70.0	19.6	66.0	158	97.5	118	73.8	22.1	12.4	14.8	33.2	16.2
MAX	109	28	235	237	140	190	145	39	30	29	72	33
MIN	29	12	16	115	64	54	25	8.3	6.9	10	17	5.8
CFSM	.48	.14	.46	1.09	.67	.81	.51	.15	.09	.10	.23	.11
IN.	.56	.15	.52	1.26	.73	.94	.57	.18	.10	.12	.26	.12
AC-FT	4300	1170	4060	9730	5610	7260	4390	1360	740	908	2040	962

CAL YR 1983 TOTAL 48469.5 MEAN 133 MAX 515 MIN 6.9 CFSM .92 IN. 12.43 AC-FT 96140
WTR YR 1984 TOTAL 21438.4 MEAN 58.6 MAX 237 MIN 5.8 CFSM .40 IN. 5.50 AC-FT 42520

WITHLACOOCHEE RIVER BASIN

02312200 LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1964 to December 1967.
WATER TEMPERATURE: October 1964 to December 1967.

EXTREMES FOR PERIOD OF DAILY RECORDS.--
SPECIFIC CONDUCTANCE: Maximum observed, 490 micromhos Dec. 26, 1967; minimum observed, 45 micromhos Aug. 30, 1965.
WATER TEMPERATURE: Maximum observed, 30.5°C June 30, 1965; minimum observed, 9.0°C Jan. 30,31, 1966.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT										
20...	1415	3.82	71	--	--	26.0	--	--	--	--
NOV										
29...	1245	2.84	21	268	6.3	19.0	--	--	3.0	--
JAN										
30...	1100	4.29	130	147	6.7	15.5	160	--	5.0	24
MAR										
21...	1000	4.01	93	199	5.1	19.5	140	--	--	30
JUN										
27...	1125	2.32	14	300	7.1	27.0	--	--	3.4	--
JUL										
09...	1600	2.54	15	300	7.1	27.5	30	3.8	3.4	58
AUG										
10...	1000	2.66	19	200	5.8	27.5	40	--	3.9	52

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
NOV										
29...	--	--	--	--	--	--	--	--	<.010	.05
JAN										
30...	1.5	5.6	.40	1.5	13	<.10	1.9	134	<.010	<.10
MAR										
21...	1.5	5.5	.30	7.9	6.8	<.10	2.2	1260	.020	<.10
JUN										
27...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	2.0	5.2	.40	1.7	10	.10	7.8	210	<.010	<.10
AUG										
10...	2.1	5.8	.60	9.5	12	.10	7.2	186	<.010	<.10

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
20...	--	--	--	--	--	--	--	--	--
NOV									
29...	.040	.56	.60	.65	.040	--	.020	--	--
JAN									
30...	.100	.50	.60	--	.050	.15	<.010	29	--
MAR									
21...	.020	.78	.80	--	.040	.12	.010	20	--
JUN									
27...	--	--	--	--	--	--	--	--	--
JUL									
09...	.550	.45	1.0	--	.030	--	.020	66	9.9
AUG									
10...	<.010	--	.60	--	.040	--	<.010	65	--

WITHLACOOCHEE RIVER BASIN

02312500 WITHLACOOCHEE RIVER AT CROOM, FL

LOCATION.--Lat 28°35'33", long 82°13'20", in NE¼ sec.8, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, on left bank at upstream side of abandoned highway bridge, 0.4 mi northwest of Croom, 2.3 mi downstream from Little Withlacoochee River, 4.5 mi southeast of Nobleton, and 77 mi upstream from mouth.

DRAINAGE AREA.--810 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 38.94 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Feb. 2, 1940, nonrecording gage at railroad bridge 500 ft upstream at same datum.

REMARKS.--Records good. Records include considerable amount of waste water diverted from ground-water supplies during packing season by packing companies upstream (see station 02312000 Withlacoochee River at Trilby).

AVERAGE DISCHARGE.--45 years, 466 ft³/s, 337,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,650 ft³/s Mar. 23, 1960, gage height, 13.78 ft; minimum, 4.4 ft³/s July 7,8, 1981, gage height, 1.06 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1934 reached a stage of 15.2 ft, from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 807 ft³/s Mar. 6,7, gage height, 6.73 ft; minimum daily discharge, 115 ft³/s June 18, estimated; minimum gage height, 2.56 ft June 18, estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	737	468	255	717	719	710	412	438	350	198	507	556
2	693	458	252	729	705	737	397	421	350	203	543	553
3	651	442	250	728	691	758	381	403	345	225	565	553
4	609	423	249	727	678	777	416	389	340	245	584	555
5	569	407	248	728	665	791	456	379	330	261	601	561
6	532	389	248	734	648	800	468	368	320	293	615	562
7	500	371	244	742	629	805	470	358	310	315	618	561
8	467	356	241	750	610	795	466	342	300	323	620	557
9	434	342	237	756	592	779	471	328	280	322	618	551
10	410	327	234	772	575	762	507	317	250	331	612	543
11	401	313	232	787	559	743	516	311	220	338	606	531
12	397	302	273	794	545	725	520	312	200	355	601	516
13	389	294	324	802	546	714	530	312	180	373	597	503
14	385	287	346	799	563	696	551	305	160	390	597	493
15	381	281	360	792	567	675	603	299	145	402	604	486
16	378	278	369	784	564	652	638	293	130	411	611	482
17	377	272	376	774	558	629	647	310	120	415	621	480
18	375	265	381	764	550	605	648	292	115	417	631	479
19	373	258	385	771	543	582	645	275	120	415	643	480
20	369	261	388	775	536	564	641	256	130	417	652	479
21	365	274	388	781	531	556	635	234	135	415	666	476
22	366	280	387	787	542	540	624	214	140	405	674	470
23	378	283	3[illegible]7	789	556	521	596	195	150	398	671	462
24	396	282	[illegible]87	785	563	503	568	179	160	390	663	451
25	413	278	384	781	570	486	538	166	171	390	654	439
26	434	271	380	777	578	471	505	157	170	399	645	423
27	452	264	376	772	598	464	480	148	167	417	634	407
28	465	259	378	738	640	455	461	200	164	422	616	425
29	472	258	441	710	677	446	451	270	172	431	596	412
30	476	257	567	718	---	438	443	320	187	446	578	397
31	474	---	668	733	---	426	---	340	---	473	564	---
TOTAL	14118	9500	10635	23596	17298	19605	15684	9131	6311	11235	19007	14843
MEAN	455	317	343	761	596	632	523	295	210	362	613	495
MAX	737	468	668	802	719	805	648	438	350	473	674	562
MIN	365	257	232	710	531	426	381	148	115	198	507	397
AC-FT	28000	18840	21090	46800	34310	38890	31110	18110	12520	22280	37700	29440

CAL YR 1983 TOTAL 233291 MEAN 639 MAX 1820 MIN 133 AC-FT 462700
WTR YR 1984 TOTAL 170963 MEAN 467 MAX 805 MIN 115 AC-FT 339100

02312500 WITHLACOOCHEE RIVER AT CROOM, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.57	5.39	4.00	6.39	6.41	6.36	4.68	4.84	4.29	3.27	5.26	5.54
2	6.44	5.34	3.98	6.45	6.34	6.48	4.58	4.73	4.29	3.31	5.47	5.53
3	6.29	5.26	3.96	6.45	6.27	6.57	4.48	4.62	4.26	3.46	5.60	5.53
4	6.13	5.16	3.96	6.44	6.21	6.64	4.70	4.53	4.23	3.60	5.70	5.54
5	5.98	5.07	3.95	6.44	6.14	6.68	4.95	4.47	4.16	3.71	5.79	5.57
6	5.82	4.95	3.95	6.47	6.05	6.71	5.03	4.40	4.10	3.92	5.87	5.58
7	5.65	4.82	3.92	6.51	5.95	6.72	5.04	4.34	4.03	4.07	5.89	5.57
8	5.48	4.72	3.89	6.54	5.84	6.69	5.01	4.24	3.97	4.12	5.90	5.55
9	5.31	4.63	3.86	6.56	5.74	6.65	5.04	4.15	3.84	4.11	5.89	5.51
10	5.17	4.53	3.84	6.62	5.65	6.59	5.26	4.08	3.64	4.17	5.86	5.47
11	5.09	4.43	3.82	6.67	5.56	6.51	5.31	4.04	3.44	4.21	5.82	5.40
12	5.06	4.35	4.14	6.70	5.48	6.43	5.34	4.05	3.29	4.32	5.79	5.31
13	5.00	4.29	4.51	6.72	5.48	6.38	5.40	4.05	3.12	4.43	5.77	5.23
14	4.97	4.24	4.65	6.71	5.58	6.29	5.52	4.00	2.96	4.54	5.77	5.17
15	4.93	4.20	4.75	6.69	5.60	6.19	5.81	3.96	2.84	4.61	5.81	5.13
16	4.91	4.18	4.81	6.66	5.59	6.07	5.99	3.92	2.70	4.67	5.85	5.11
17	4.89	4.13	4.86	6.63	5.55	5.95	6.05	4.03	2.61	4.69	5.91	5.10
18	4.87	4.08	4.89	6.60	5.51	5.82	6.05	3.92	2.56	4.70	5.96	5.10
19	4.85	4.03	4.92	6.62	5.47	5.69	6.03	3.80	2.61	4.70	6.02	5.10
20	4.81	4.05	4.94	6.63	5.43	5.59	6.01	3.67	2.70	4.71	6.07	5.10
21	4.79	4.14	4.94	6.65	5.40	5.55	5.98	3.53	2.75	4.69	6.14	5.07
22	4.79	4.19	4.93	6.67	5.47	5.45	5.92	3.39	2.79	4.63	6.18	5.04
23	4.87	4.21	4.93	6.68	5.54	5.34	5.77	3.25	2.88	4.58	6.17	4.99
24	4.99	4.21	4.93	6.67	5.58	5.24	5.61	3.12	2.96	4.54	6.13	4.92
25	5.11	4.18	4.91	6.65	5.62	5.14	5.44	3.01	3.05	4.54	6.08	4.84
26	5.22	4.12	4.89	6.64	5.66	5.05	5.25	2.94	3.04	4.60	6.03	4.74
27	5.31	4.07	4.86	6.62	5.78	5.00	5.10	2.86	3.02	4.70	5.97	4.64
28	5.38	4.03	4.87	6.48	6.01	4.94	4.98	3.29	3.00	4.74	5.88	4.76
29	5.41	4.03	5.25	6.36	6.20	4.89	4.92	3.77	3.06	4.79	5.77	4.67
30	5.43	4.02	5.84	6.40	---	4.84	4.87	4.10	3.18	4.89	5.67	4.58
31	5.42	---	6.21	6.47	---	4.76	---	4.23	---	5.05	5.59	---
MEAN	5.32	4.43	4.59	6.57	5.76	5.91	5.34	3.91	3.31	4.36	5.86	5.18
MAX	6.57	5.39	6.21	6.72	6.41	6.72	6.05	4.84	4.29	5.05	6.18	5.58
MIN	4.79	4.02	3.82	6.36	5.40	4.76	4.48	2.86	2.56	3.27	5.26	4.58

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CAL YR 1983  MEAN      5.61      MAX      8.45      MIN      3.11
WTR YR 1984  MEAN      5.05      MAX      6.72      MIN      2.56
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02312500 WITHLACOOCHEE RIVER AT CROOM, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1960-61, 1963, 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	NITROGEN DISSOLVED (MG/L AS N) (00602)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT 21...	1210	4.78	364	200	6.1	25.5	--	--	4.0	--	--	--
JAN 30...	1630	6.50	738	148	6.8	18.0	180	--	5.9	--	21	2.1
MAR 28...	1400	4.94	453	200	6.9	22.5	140	--	6.9	1.2	31	2.4
JUN 25...	1645	3.06	165	270	7.6	29.5	30	2.5	6.0	--	47	3.1
AUG 09...	1630	5.89	516	103	5.4	29.0	260	--	5.2	--	17	1.5

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	6.7	1.2	2.9	15	<.10	2.3	124	<.010	--	<.10	--	<.010
MAR 28...	6.7	.60	2.9	15	.10	3.2	145	--	<.010	--	.13	--
JUN 25...	5.6	.60	7.1	10	.10	5.5	174	<.010	--	<.10	--	.030
AUG 09...	4.9	.60	12	11	.10	4.1	122	.020	--	<.10	--	<.010

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	.70	--	.090	.28	.030	--	--	61	--
MAR 28...	<.010	--	--	1.1	--	--	--	.060	.18	93	--
JUN 25...	--	.47	.50	--	.050	--	.040	--	--	160	6.1
AUG 09...	--	--	.90	--	.110	--	.070	--	--	50	--

WITHLACOOCHEE RIVER BASIN

02312600 WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL

LOCATION.--Lat 28°44'36", long 82°13'13", in SE¼ sec.17, T.20 S., R.21 E., Citrus County, Hydrologic Unit 03100208, on upstream shoreward corner of pavillion at Trails End Camp, 1.1 mi downstream from diversions to Tsala Apopka Lake, 4.7 mi east of Floral City, and 62 mi upstream from mouth.

DRAINAGE AREA.--995 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1958 to January 1965 (gage heights only), February 1965 to September 1983 (discharge measurements and gage heights only), October 1983 to September 1984. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1983, nonrecording gage at same site and datum.

REMARKS.--Discharge published is for site at bridge on State Highway 48 about 2 mi upstream and above diversions to Tsala Apopka Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 4,430 ft³/s Oct. 2, 1979; maximum gage height observed, 45.24 ft Mar. 25, 1960; minimum measured, -5.0 ft³/s July 24, 1981; minimum gage height observed, 37.48 ft July 8, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 932 ft³/s Oct. 1; maximum gage height, 42.03 ft Oct. 1; minimum daily discharge, 215 ft³/s June 21; minimum gage height, 40.13 ft June 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	932	595	316	607	708	618	427	463	405	280	582	663
2	909	590	312	635	697	632	409	441	390	299	601	640
3	885	580	309	653	686	646	398	418	374	370	611	623
4	858	565	303	662	677	661	480	399	354	411	622	614
5	833	550	295	669	666	676	495	449	335	422	640	609
6	806	535	294	672	650	690	492	466	319	424	664	600
7	777	515	291	675	634	698	489	448	303	426	664	590
8	750	510	287	675	617	700	483	431	290	435	674	580
9	725	495	283	680	603	702	522	406	278	434	688	576
10	699	475	279	705	588	700	564	384	267	428	690	573
11	685	455	277	716	570	697	555	358	257	435	694	559
12	700	435	301	716	553	692	553	333	247	435	701	543
13	685	415	304	732	595	706	547	314	240	434	710	531
14	680	400	315	736	662	692	542	298	234	435	706	516
15	675	385	345	740	645	676	550	285	229	437	703	502
16	665	380	361	740	631	660	568	274	226	442	698	485
17	650	370	372	738	617	643	579	264	223	444	700	471
18	640	355	383	738	600	625	586	255	222	452	698	463
19	625	340	388	747	585	606	587	246	220	450	704	463
20	605	340	408	743	570	595	588	238	218	453	725	459
21	585	360	411	749	556	591	596	232	215	450	766	450
22	575	360	415	746	581	572	584	229	216	447	795	435
23	565	360	415	748	594	554	582	248	226	453	795	418
24	565	350	410	749	583	538	576	258	234	449	792	405
25	570	345	400	751	573	526	563	274	237	443	783	390
26	570	340	394	752	565	508	551	308	236	451	777	373
27	580	326	389	753	577	509	537	350	237	489	761	364
28	585	323	391	744	610	510	522	414	236	491	741	437
29	585	323	480	738	611	483	504	424	253	491	721	427
30	590	323	547	730	---	463	485	430	274	510	699	410
31	595	---	574	719	---	444	---	417	---	559	683	---
TOTAL	21149	12695	11249	22158	17804	19013	15904	10754	7995	13579	21788	15169
MEAN	682	423	363	715	614	613	530	347	267	438	703	506
MAX	932	595	574	753	708	706	588	466	405	559	795	663
MIN	565	323	277	607	553	444	398	229	215	280	582	364

WTR YR 1984 TOTAL 189257 MEAN 517 MAX 932 MIN 215

02312600 WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.00	41.33	40.76	41.35	41.56	41.38	40.99	41.07	40.95	40.63	41.30	41.47
2	41.96	41.32	40.75	41.41	41.53	41.40	40.96	41.02	40.92	40.69	41.34	41.42
3	41.91	41.30	40.74	41.45	41.51	41.43	40.94	40.98	40.89	40.88	41.36	41.39
4	41.86	41.27	40.72	41.46	41.49	41.46	41.10	40.94	40.85	40.96	41.38	41.37
5	41.81	41.24	40.70	41.48	41.47	41.49	41.13	41.04	40.81	40.98	41.42	41.36
6	41.75	41.21	40.70	41.48	41.44	41.52	41.12	41.07	40.77	40.99	41.47	41.34
7	41.69	41.17	40.68	41.49	41.41	41.54	41.12	41.04	40.72	40.99	41.47	41.32
8	41.64	41.16	40.66	41.49	41.37	41.54	41.11	41.00	40.67	41.01	41.49	41.30
9	41.59	41.13	40.64	41.50	41.35	41.54	41.18	40.95	40.61	41.01	41.52	41.25
10	41.54	41.09	40.62	41.55	41.32	41.54	41.27	40.91	40.55	41.00	41.52	41.29
11	41.51	41.05	40.61	41.57	41.28	41.53	41.25	40.86	40.50	41.01	41.53	41.26
12	41.54	41.01	40.71	41.57	41.25	41.52	41.25	40.80	40.44	41.01	41.54	41.23
13	41.51	40.97	40.73	41.60	41.33	41.55	41.23	40.75	40.38	41.01	41.56	41.20
14	41.50	40.94	40.76	41.61	41.46	41.52	41.22	40.71	40.33	41.01	41.55	41.17
15	41.49	40.91	40.83	41.62	41.43	41.49	41.24	40.65	40.29	41.01	41.55	41.14
16	41.47	40.90	40.86	41.62	41.40	41.46	41.28	40.59	40.26	41.02	41.54	41.11
17	41.44	40.88	40.88	41.62	41.37	41.43	41.30	40.54	40.24	41.03	41.54	41.08
18	41.42	40.85	40.91	41.62	41.34	41.39	41.31	40.48	40.23	41.04	41.54	41.07
19	41.39	40.82	40.92	41.63	41.31	41.35	41.31	40.43	40.21	41.04	41.55	41.07
20	41.35	40.82	40.96	41.63	41.28	41.33	41.32	40.37	40.19	41.05	41.59	41.05
21	41.31	40.86	40.96	41.64	41.25	41.32	41.31	40.32	40.16	41.04	41.67	41.04
22	41.29	40.86	40.97	41.63	41.30	41.28	41.31	40.29	40.17	41.03	41.73	41.01
23	41.27	40.86	40.97	41.63	41.33	41.25	41.30	40.44	40.27	41.05	41.73	40.98
24	41.27	40.84	40.96	41.64	41.31	41.22	41.29	40.50	40.33	41.04	41.72	40.95
25	41.28	40.83	40.94	41.64	41.29	41.19	41.27	40.59	40.36	41.03	41.71	40.92
26	41.2[illegible]	40.82	40.93	41.64	41.27	41.16	41.24	40.74	40.35	41.04	41.69	40.89
27	41.30	40.79	40.92	41.65	41.29	41.16	41.21	40.84	40.36	41.12	41.66	40.87
28	41.31	40.78	40.92	41.63	41.36	41.16	41.18	40.97	40.35	41.12	41.62	41.01
29	41.31	40.78	41.10	41.62	41.36	41.11	41.15	40.99	40.47	41.12	41.58	40.99
30	41.32	40.78	41.23	41.60	---	41.07	41.11	41.00	40.60	41.16	41.54	40.96
31	41.33	---	41.29	41.58	---	41.03	---	40.97	---	41.26	41.51	---
MEAN	41.50	40.99	40.85	41.57	41.37	41.37	41.20	40.77	40.47	41.01	41.55	41.15
MAX	42.00	41.33	41.29	41.65	41.56	41.55	41.32	41.07	40.95	41.26	41.73	41.47
MIN	41.27	40.78	40.61	41.35	41.25	41.03	40.94	40.29	40.16	40.63	41.30	40.87

WTR YR 1984 MEAN 41.15 MAX 42.00 MIN 40.16

02312600 WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN 30...	1330	41.60	730	172	6.2	18.0	--	4.4	--	--
MAR 16...	1300	41.46	757	172	5.4	22.5	--	3.9	--	--
JUN 06...	1130	40.77	309	235	7.2	28.0	60	5.5	41	2.6
AUG 14...	1715	41.55	517	139	7.0	29.5	220	2.0	22	1.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
JAN 30...	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	<.010	.20
JUN 06...	5.6	.60	6.2	9.7	.10	4.4	175	<.010	<.10
AUG 14...	4.5	.40	10	9.6	.10	4.8	127	<.010	<.10

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JAN 30...	--	--	--	--	--	--	--	--	--
MAR 16...	.030	.97	1.0	1.2	.050	.15	<.040	--	--
JUN 06...	<.010	--	.90	--	.030	--	.020	120	11
AUG 14...	.020	.68	.70	--	.140	--	.110	63	27

WITHLACOOCHEE RIVER BASIN

02312635 JUMPER CREEK CANAL NEAR SUMTERVILLE, FL

LOCATION.--Lat 28°41'46", long 82°03'18", in NE¼ sec.1, T.21 S., R.22 E., Sumter County, Hydrologic Unit 03100208, near left bank on downstream side of bridge on State Highway 471, 3.4 mi south of Sumterville, 4.2 mi northeast of Bushnell, and 12.9 mi upstream from mouth.

DRAINAGE AREA.--28.6 mi².

PERIOD OF RECORD.--October 1976 to September 1977, March 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 68.04 ft National Geodetic Vertical Datum of 1929 (Soil Conservation Service bench mark).

REMARKS.--Records poor. Flow affected by pumpage into and out of canal upstream and downstream from station.

AVERAGE DISCHARGE.--6 years (water years 1977, 1980-84), 25.6 ft³/s, 12.16 in/yr, 18,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 89 ft³/s Apr. 24, 1983; maximum gage height, 8.43 ft Feb. 15, 1982; no flow many days in most years; canal dry at gage for many days in 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 52 ft³/s July 25; maximum gage height, 7.49 ft July 30; minimum daily discharge, 13 ft³/s Sept. 28; minimum gage height, 4.38 ft Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	32	29	33	30	31	32	26	37	31	31	33
2	28	30	30	33	32	31	27	22	29	25	28	32
3	36	27	16	33	34	31	32	22	30	48	42	26
4	32	23	26	33	22	31	35	21	19	37	29	40
5	34	30	25	39	30	32	27	31	27	40	45	39
6	29	25	26	37	32	32	33	27	30	32	34	22
7	31	31	30	38	32	32	33	23	40	40	33	39
8	29	25	30	38	32	31	26	21	29	39	39	22
9	33	29	30	34	30	26	34	24	26	40	41	38
10	26	31	29	35	30	32	30	31	28	38	25	33
11	33	21	18	30	31	32	22	24	33	44	36	30
12	34	31	29	37	27	26	29	23	32	44	19	38
13	33	28	31	37	29	30	30	25	27	32	39	28
14	30	29	31	31	27	32	31	17	31	47	41	28
15	30	23	32	35	32	32	26	32	30	30	20	17
16	33	29	16	28	25	32	24	25	27	37	40	31
17	33	31	27	33	30	32	22	21	27	50	31	29
18	30	31	31	37	22	31	25	26	27	38	21	33
19	25	20	30	34	29	27	27	20	26	40	42	23
20	22	33	31	33	30	36	25	31	34	43	37	15
21	32	31	23	38	28	36	29	25	28	45	46	31
22	32	18	31	31	30	34	29	22	31	37	37	27
23	32	29	31	35	29	34	27	17	30	24	25	26
24	31	29	24	24	28	28	36	36	24	43	42	14
25	30	30	20	35	27	33	35	27	44	52	40	34
26	30	20	22	36	28	34	28	25	32	36	36	35
27	30	28	24	29	28	23	28	31	41	45	22	14
28	22	28	33	32	24	31	24	26	24	28	42	13
29	30	29	38	35	24	33	32	30	32	48	39	19
30	31	24	33	30	---	33	25	24	36	45	39	39
31	22	---	33	32	---	33	---	26	---	47	39	---
TOTAL	938	825	858	1045	832	971	863	781	911	1225	1080	848
MEAN	30.3	27.5	27.7	33.7	28.7	31.3	28.8	25.2	30.4	39.5	34.8	28.3
MAX	36	33	38	39	34	36	36	36	44	52	46	40
MIN	22	18	16	24	22	23	22	17	19	24	19	13
AC-FT	1860	1640	1700	2070	1650	1930	1710	1550	1810	2430	2140	1680

CAL YR 1983 TOTAL 13034 MEAN 35.7 MAX 89 MIN 16 AC-FT 25850
WTR YR 1984 TOTAL 11177 MEAN 30.5 MAX 52 MIN 13 AC-FT 22170

WITHLACOOCHEE RIVER BASIN

02312640 JUMPER CREEK CANAL NEAR BUSHNELL, FL

LOCATION.--Lat 28°41'45", long 82°06'34", in NE¼ sec.4, T.21 S., R.22 E., Sumter County, Hydrologic Unit 03100208, near center of span on downstream side of bridge on State Highway 475, 2.2 mi north of Bushnell, and 10 mi upstream from mouth.

DRAINAGE AREA.--40 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1963 to current year.

REVISED RECORDS.--WDR FL-81-3: 1980 (m).

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Diurnal fluctuation caused by mining operations upstream; daily flows are not affected appreciably.

AVERAGE DISCHARGE.--21 years, 28.0 ft³/s, 9.51 in/yr, 20,250 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft³/s Feb. 3, 1970, gage height, 6.06 ft; maximum gage height, 6.09 ft Apr. 23, 1983; minimum daily discharge, 0.06 ft³/s Dec. 25, 1981; minimum gage height, 0.76 ft Dec. 25,26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 57 ft³/s July 4,31; maximum gage height, 4.77 ft July 1; minimum daily discharge, 21 ft³/s Sept. 24; minimum gage height, 2.56 ft Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	36	31	44	40	39	39	41	39	45	47	41
2	31	37	35	44	37	39	35	36	43	44	42	32
3	41	31	26	43	41	40	39	36	37	54	45	36
4	36	33	27	43	35	39	45	34	32	57	47	35
5	38	32	32	45	35	40	40	41	33	48	46	39
6	33	33	31	45	40	39	41	44	36	52	49	34
7	35	34	34	45	39	39	42	38	40	49	45	35
8	32	35	34	45	39	38	37	36	41	51	44	33
9	37	31	34	42	39	35	43	38	34	50	51	34
10	29	36	34	45	36	37	42	39	35	47	39	37
11	37	29	26	37	38	38	37	41	34	49	46	33
12	38	34	33	44	35	36	36	35	42	50	35	34
13	37	36	37	44	40	35	40	36	36	46	39	37
14	34	31	37	43	34	38	40	31	33	46	48	30
15	33	32	38	41	39	38	39	37	41	46	36	26
16	37	30	28	37	34	38	36	40	36	39	38	31
17	37	35	30	41	37	38	37	33	35	51	45	31
18	35	35	37	44	32	37	36	36	34	46	31	32
19	26	29	37	43	35	33	38	33	34	45	44	32
20	24	35	37	41	37	40	36	36	43	47	39	23
21	36	36	33	45	37	42	38	40	37	47	51	28
22	37	28	34	43	37	41	40	33	37	48	43	32
23	37	31	38	41	39	41	35	31	40	38	41	31
24	37	34	34	38	38	39	43	40	34	40	41	21
25	37	34	26	41	35	37	44	42	39	51	45	30
26	36	29	29	44	38	40	42	37	45	47	42	35
27	36	30	30	41	37	37	38	40	39	46	35	26
28	32	33	37	39	39	32	36	37	39	41	37	23
29	32	33	46	42	30	40	39	44	39	46	44	22
30	37	32	44	41	---	40	36	38	41	49	38	33
31	29	---	43	38	---	39	---	38	---	57	39	---
TOTAL	1078	984	1052	1309	1072	1184	1169	1161	1128	1472	1312	946
MEAN	34.8	32.8	33.9	42.2	37.0	38.2	39.0	37.5	37.6	47.5	42.3	31.5
MAX	42	37	46	45	41	42	45	44	45	57	51	41
MIN	24	28	26	37	30	32	35	31	32	38	31	21
AC-FT	2140	1950	2090	2600	2130	2350	2320	2300	2240	2920	2600	1880

CAL YR 1983 TOTAL 15900 MEAN 43.6 MAX 118 MIN 24 AC-FT 31540
WTR YR 1984 TOTAL 13867 MEAN 37.9 MAX 57 MIN 21 AC-FT 27510

02312640 JUMPER CREEK CANAL NEAR BUSHNELL, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT 25...	1330	3.69	36	400	7.3	22.5	--	6.9
NOV 30...	1210	3.63	35	420	7.3	18.0	--	8.6
JAN 25...	1045	3.74	43	430	6.7	20.0	--	5.5
APR 10...	1410	3.89	41	380	6.6	23.5	--	8.7
JUN 05...	1230	3.95	36	400	8.2	26.0	10	8.5
AUG 03...	1440	4.12	45	395	8.1	28.0	--	9.3

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
JUN 05...	77	2.2	6.2	.20	6.5	12	.20	7.6	259

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JUN 05...	<.010	<.10	<.010	.70	.020	.020	87	3.2

WITHLACOOCHEE RIVER BASIN

02312645 JUMPER CREEK CANAL NEAR WAHOO, FL

LOCATION.--Lat 28°42'15", long 82°09'26", in SE¼ sec.36, T.20 S., R.21 E, Sumter County, Hydrologic Unit 03100208, on right bank 15 ft downstream from Bevilles Bridge, 2.5 mi northeast of Wahoo, 3.9 mi northwest of Bushnell, and 5.7 mi upstream from mouth.

DRAINAGE AREA.--50.6 mi^2.

PERIOD OF RECORD.--March 1979 to current year.

REVISED RECORDS.--WDR FL-81-3: 1980 (m).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of no gage-height record, Mar. 1 to Apr. 10, which are poor.

AVERAGE DISCHARGE.--5 years, 43.0 ft^3/s, 11.54 in/yr, 31,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 265 ft^3/s May 8, 1979; maximum gage height, 48.30 ft May 8, 1979, Apr. 24, 1983; minimum daily discharge, 2.8 ft^3/s Dec. 22-25, 1981; minimum gage height, 45.77 ft Dec. 22-25, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 114 ft^3/s July 30; maximum gage height, 47.85 ft Aug. 21,22; minimum daily discharge, 26 ft^3/s Sept. 21,25; minimum gage height, 46.81 ft May 20, June 12,13,17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	37	38	69	53	60	70	46	44	58	81	46
2	45	43	42	67	50	50	65	42	49	57	61	43
3	50	40	41	64	52	55	55	40	44	52	52	40
4	54	39	30	62	52	60	60	38	40	52	55	38
5	48	36	36	62	43	65	65	53	33	50	52	42
6	42	40	37	64	48	65	70	69	37	48	56	45
7	45	38	38	62	50	70	65	56	40	50	55	38
8	42	43	42	62	50	70	55	46	39	50	51	40
9	48	38	42	60	50	60	65	42	33	46	52	35
10	40	41	42	63	47	50	71	41	33	48	54	40
11	45	41	40	63	47	55	63	46	37	44	45	41
12	48	35	56	57	46	55	51	40	34	40	48	36
13	48	41	52	62	53	65	53	37	35	48	40	39
14	45	39	51	63	64	70	55	35	35	48	45	36
15	45	40	58	59	54	70	59	33	32	48	49	33
16	50	35	52	59	51	68	55	43	32	50	40	29
17	50	38	37	64	45	62	52	35	32	52	47	33
18	45	39	44	63	46	55	49	33	34	64	51	34
19	38	38	47	56	42	52	50	34	33	64	40	36
20	35	37	49	56	48	60	50	31	38	55	55	30
21	45	53	48	54	50	70	47	40	37	45	91	26
22	47	44	40	62	60	75	50	34	35	46	110	32
23	48	31	45	56	71	70	48	41	39	53	71	32
24	47	34	44	50	58	60	51	44	38	56	53	29
25	45	34	37	58	52	65	55	53	39	58	53	26
26	44	34	36	65	50	70	56	54	49	53	55	33
27	43	27	37	63	55	70	49	55	45	45	49	35
28	42	27	39	54	73	60	46	88	61	45	41	38
29	36	27	86	54	66	55	43	62	78	63	46	30
30	40	38	104	56	---	65	45	54	72	114	48	30
31	42	---	77	52	---	70	---	47	---	99	45	---
TOTAL	1402	1127	1467	1861	1526	1947	1668	1412	1227	1701	1691	1065
MEAN	45.2	37.6	47.3	60.0	52.6	62.8	55.6	45.5	40.9	54.9	54.5	35.5
MAX	60	53	104	69	73	75	71	88	78	114	110	46
MIN	35	27	30	50	42	50	43	31	32	40	40	26
AC-FT	2780	2240	2910	3690	3030	3860	3310	2800	2430	3370	3350	2110

CAL YR 1983 TOTAL 22377 MEAN 61.3 MAX 204 MIN 27 AC-FT 44380
WTR YR 1984 TOTAL 18094 MEAN 49.4 MAX 114 MIN 26 AC-FT 35890

WITHLACOOCHEE RIVER BASIN

02312667 SHADY BROOK NEAR SUMTERVILLE, FL

LOCATION.--Lat 28°46'12", long 82°03'50", in NW¼ sec.12, T.20 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on right bank in Thompkins Park, 400 ft upstream from bridge on U.S. Highway 301, and 1.7 mi north of Sumterville.

DRAINAGE AREA.--8.0 mi², approximately.

PERIOD OF RECORD.--1932-33, 1946, 1956, 1961, 1965-67, 1980-81 (miscellaneous discharge measurements), March 1982 to current year. Prior to November 1980, published as Panasoffkee River near Sumterville.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records include an appreciable amount of waste water diverted from ground-water supplies from mining operations upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340 ft³/s Apr. 23, 1983, gage height, 50.76 ft; minimum discharge measured, 8.6 ft³/s Feb. 17, 1933; minimum gage height, 48.37 ft Nov. 18,19, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft³/s June 8, gage height, 49.76 ft; minimum, 45 ft³/s Nov. 18,19, gage height, 48.37 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	58	60	106	88	87	57	64	123	111	110	69
2	53	55	56	111	80	84	55	50	123	107	100	67
3	55	51	57	113	77	87	59	60	125	100	90	65
4	56	49	59	111	75	90	91	72	129	92	90	62
5	56	52	56	109	74	92	104	76	144	100	86	61
6	55	56	56	107	72	91	99	78	146	96	84	59
7	50	58	60	104	70	85	97	75	141	90	80	58
8	47	57	57	103	69	79	98	73	147	88	78	58
9	48	51	52	104	69	77	106	70	141	84	79	58
10	47	47	50	109	71	77	117	67	129	80	80	57
11	49	47	55	110	73	75	115	63	117	76	81	56
12	61	51	73	103	74	72	114	60	104	72	87	56
13	65	55	80	99	78	72	116	59	91	72	83	54
14	64	57	79	96	81	72	116	58	80	76	78	54
15	63	57	79	97	75	70	114	57	75	78	74	53
16	65	56	78	99	68	71	109	55	69	76	72	52
17	72	50	78	100	65	72	105	53	66	86	72	51
18	77	46	79	100	67	72	105	52	84	90	69	53
19	76	46	82	97	71	72	106	52	86	88	68	52
20	70	54	86	92	71	72	106	52	81	84	75	52
21	65	65	91	94	68	74	105	52	79	80	77	50
22	65	67	92	96	72	68	100	52	77	76	96	50
23	70	62	90	96	78	61	93	65	85	86	93	48
24	73	56	83	93	78	58	89	67	103	90	92	48
25	73	53	76	90	75	61	88	75	103	96	92	48
26	72	54	70	88	73	65	88	92	100	90	92	47
27	68	60	69	85	80	71	86	101	101	84	91	47
28	60	64	74	85	90	74	82	108	113	80	88	54
29	54	66	94	88	91	73	77	104	124	76	82	56
30	56	65	106	90	---	66	71	109	123	90	78	54
31	58	---	107	91	---	60	---	126	---	110	73	---
TOTAL	1895	1665	2284	3066	2173	2300	2868	2197	3209	2704	2590	1649
MEAN	61.1	55.5	73.7	98.9	74.9	74.2	95.6	70.9	107	87.2	83.5	55.0
MAX	77	67	107	113	91	92	117	126	147	111	110	69
MIN	47	46	50	85	65	58	55	50	66	72	68	47
AC-FT	3760	3300	4530	6080	4310	4560	5690	4360	6370	5360	5140	3270

CAL YR 1983 TOTAL 33749 MEAN 92.5 MAX 242 MIN 46 AC-FT 66940
WTR YR 1984 TOTAL 28600 MEAN 78.1 MAX 147 MIN 46 AC-FT 56730

WITHLACOOCHEE RIVER BASIN

02312690 CHITTY CHATTY CREEK NEAR WILDWOOD, FL

LOCATION.--Lat 28°48'33", long 81°58'59", in NW¼ sec.26, T.19 S., R.23 E., Sumter County, Hydrologic Unit 03100208, near center of span on downstream side of box culverts on county road 468, 2.0 mi upstream from Lake Okahumpka, and 5.0 mi southeast of Wildwood.

DRAINAGE AREA.--38 mi², approximately.

PERIOD OF RECORD.--July 1959 to March 1960 (discharge measurements only), September 1963 to July 1966, December 1978 to current year. Prior to December 1978 records not equivalent because of channelization.

REVISED RECORDS.-- WDR FL-79-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.70 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 15, 1978, at datum 3.30 ft higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years (water years 1980-84), 15.5 ft³/s, 5.54 in/yr, 11,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 180 ft³/s Sept. 27, 1979, gage height, 7.46 ft; no flow for many days most years; minimum gage height, 3.13 ft Oct. 23,24, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1960 reached a stage of 6.55 ft datum then in use, from floodmarks, discharge, 260 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s May 28, gage height, 6.79 ft; no flow May 20,21; minimum gage height, 4.35 ft May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.6	9.6	68	16	33	4.3	2.9	56	4.9	66	28
2	3.7	3.5	8.7	59	15	28	3.5	2.5	48	5.4	60	40
3	3.3	3.3	7.9	50	14	24	4.3	2.9	38	8.5	54	50
4	2.7	3.0	7.3	43	13	21	35	2.0	28	31	40	51
5	2.1	3.0	8.0	38	12	18	53	2.6	20	42	30	47
6	1.6	3.4	9.4	34	11	16	46	4.5	14	42	24	39
7	1.4	3.6	12	31	9.9	15	35	4.4	11	37	18	33
8	3.4	4.6	12	28	9.2	13	27	3.9	7.7	31	14	28
9	26	6.2	11	25	8.7	12	33	3.2	5.4	26	11	24
10	20	7.1	9.6	26	8.4	11	43	2.6	3.7	23	9.3	21
11	19	6.4	9.3	29	8.1	9.4	42	1.8	2.5	19	8.6	19
12	34	5.2	46	26	8.0	8.4	36	1.3	1.6	16	8.1	17
13	35	4.2	56	27	9.9	9.6	30	.89	1.2	14	7.6	15
14	29	3.5	45	26	15	8.8	30	.56	1.1	13	7.1	14
15	26	3.3	39	25	15	7.6	39	.37	.95	13	6.9	13
16	25	4.5	35	24	15	6.6	38	.18	1.3	18	6.3	12
17	27	3.8	31	24	13	5.7	32	.08	1.4	27	5.7	11
18	30	2.9	27	23	13	5.0	27	.05	2.8	28	5.1	10
19	25	2.3	24	27	12	4.3	22	.02	4.3	27	4.7	9.1
20	19	5.7	23	28	12	4.5	19	.00	5.0	25	4.2	8.5
21	16	16	24	30	12	11	16	.00	11	35	4.1	7.9
22	14	17	24	31	21	12	14	.27	16	43	5.8	7.4
23	14	14	25	31	36	12	14	25	13	45	15	7.0
24	12	11	24	28	34	10	14	49	12	46	19	6.6
25	11	10	22	28	29	9.0	12	39	13	53	18	6.0
26	9.0	8.8	21	32	24	7.8	9.1	24	13	66	16	5.5
27	7.7	8.0	21	30	27	8.5	7.2	33	12	63	14	4.9
28	6.5	7.8	21	26	42	8.7	5.7	93	9.7	60	12	4.4
29	5.7	9.1	49	23	40	7.3	4.6	88	7.8	50	10	3.6
30	5.0	11	91	20	---	6.1	3.7	85	6.0	60	11	3.0
31	4.2	---	81	18	---	5.2	---	70	---	70	16	---
TOTAL	442.7	195.8	833.8	958	503.2	358.5	699.4	543.02	367.45	1041.8	531.5	545.9
MEAN	14.3	6.53	26.9	30.9	17.4	11.6	23.3	17.5	12.2	33.6	17.1	18.2
MAX	35	17	91	68	42	33	53	93	56	70	66	51
MIN	1.4	2.3	7.3	18	8.0	4.3	3.5	.00	.95	4.9	4.1	3.0
CFSM	.38	.17	.71	.81	.46	.31	.61	.46	.32	.88	.45	.48
IN.	.43	.19	.82	.94	.49	.35	.68	.53	.36	1.02	.52	.53
AC-FT	878	388	1650	1900	998	711	1390	1080	729	2070	1050	1080

CAL YR 1983 TOTAL 8162.31 MEAN 22.4 MAX 152 MIN .20 CFSM .59 IN. 7.99 AC-FT 16190

WTR YR 1984 TOTAL 7021.07 MEAN 19.2 MAX 93 MIN .00 CFSM .51 IN. 6.87 AC-FT 13930

WITHLACOOCHEE RIVER BASIN

02312700 OUTLET RIVER AT PANACOOCHEE RETREATS, FL

LOCATION.--Lat 28°49'01", long 82°08'40", in SE¼ sec.19, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on west shore of Lake Panasoffkee, 0.8 mi north of outlet, 1.3 mi north of Panacoochee Retreats, 2.0 mi upstream from mouth, and 5.1 mi northwest of town of Lake Panasoffkee.

DRAINAGE AREA.--420 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year. Prior to October 1967, published as Panasoffkee River near Lake Panasoffkee.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Dec. 18, 1962, nonrecording gage and Dec. 18, 1962, to Oct. 7, 1975, water-stage recorder at sites within 0.8 mi south at same datum.

REMARKS.--Records poor. Discharge measurements made at bridge on State Highway 470, about 1 mi downstream from lake outlet. Flow affected at times by backwater from Withlacoochee River. Prior to 1962, flow partially controlled by small rock dams and at times during 1962-64 by a temporary sheet piling dam about 400 ft downstream from bridge on State Highway 470. Gage heights are published as elevations for Lake Panasoffkee (station 02312698) in the section of this report entitled LAKE ELEVATIONS.

AVERAGE DISCHARGE.--22 years, 200 ft³/s, 6.47 in/yr, 144,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 784 ft³/s Oct. 6, 1982; maximum gage height, 42.49 ft Feb. 9, 1970; no flow June 27 to July 15, 1963, temporary dam in place; minimum gage height observed, 37.81 ft July 16, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 430 ft³/s Aug. 23, maximum gage height, 40.48 ft Aug. 1; minimum daily discharge, 112 ft³/s May 21; minimum gage height, 39.32 ft Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	421	233	248	377	293	319	227	131	266	240	301	333
2	416	237	247	373	291	316	226	132	262	249	303	324
3	408	236	245	367	289	312	227	130	259	269	300	313
4	400	237	242	362	298	310	268	127	254	276	296	302
5	393	237	241	355	306	307	280	142	250	279	288	264
6	387	237	238	351	309	304	285	160	243	279	283	215
7	380	239	231	344	314	297	287	162	236	279	280	208
8	373	243	230	338	318	294	295	162	228	277	275	203
9	368	243	228	334	321	289	344	158	219	275	268	199
10	363	243	226	334	325	286	393	157	210	273	261	201
11	370	238	226	327	327	282	394	155	206	273	257	201
12	391	235	246	325	330	282	386	150	198	270	256	201
13	388	236	251	324	346	283	378	147	192	268	252	202
14	383	237	254	322	370	280	369	142	188	266	249	202
15	379	236	262	319	369	252	363	138	183	263	250	201
16	373	235	265	317	364	212	356	135	181	261	251	199
17	369	234	265	315	357	210	348	130	184	255	252	194
18	365	235	266	313	352	217	339	124	191	247	247	193
19	359	234	267	313	344	221	332	119	187	246	244	192
20	354	244	277	311	336	227	325	115	181	247	249	190
21	348	256	277	308	331	227	316	112	177	247	308	188
22	348	255	279	310	339	232	310	116	175	260	394	185
23	350	257	278	312	335	233	301	152	186	258	430	180
24	346	256	268	309	335	234	292	157	203	253	419	176
25	338	250	263	309	329	232	286	171	205	246	409	173
26	329	250	265	312	328	231	281	210	205	241	399	166
27	319	250	267	310	328	240	169	231	203	244	388	166
28	251	248	267	307	317	238	130	255	201	242	375	198
29	230	251	290	304	313	224	132	262	212	238	364	201
30	231	250	330	301	---	231	132	267	230	244	353	204
31	231	---	374	295	---	230	---	266	---	266	342	---
TOTAL	10961	7272	8113	10098	9514	8052	8771	5015	6315	8031	9543	6374
MEAN	354	242	262	326	328	260	292	162	211	259	308	212
MAX	421	257	374	377	370	319	394	267	266	279	430	333
MIN	230	233	226	295	289	210	130	112	175	238	244	166
CFSM	.84	.58	.62	.78	.78	.62	.70	.39	.50	.62	.73	.50
IN.	.97	.64	.72	.89	.84	.71	.78	.44	.56	.71	.85	.56
AC-FT	21740	14420	16090	20030	18870	15970	17400	9950	12530	15930	18930	12640

CAL YR 1983 TOTAL 124690 MEAN 342 MAX 514 MIN 177 CFSM .81 IN. 11.04 AC-FT 247300
WTR YR 1984 TOTAL 98059 MEAN 268 MAX 430 MIN 112 CFSM .64 IN. 8.69 AC-FT 194500

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312700 OUTLET RIVER AT PANACOOCHEE RETREATS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1908, 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
APR 29...	1020	132	275	8.0	26.0	47	8.1	--	--	48	4.2
JUL 05...	1100	888	255	7.0	29.0	--	6.1	--	--	--	--
AUG 20...	1220	228	260	8.4	29.0	--	6.1	--	--	--	--
SEP 05...	1435	264	--	6.8	31.0	35	8.2	5	1000	43	3.6

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
APR 29...	5.4	.10	16	9.5	.20	5.1	188	<.010	<.10	.060
SEP 05...	4.6	.40	14	8.5	.10	12	186	<.010	<.10	.030

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
APR 29...	.54	.60	.050	.15	.010	<10	1	1	1	140
SEP 05...	.87	.90	.030	--	.030	20	<1	<1	1	100

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
APR 29...	25	<1	3	<10	2	<.1	3	290	3	10
SEP 05...	19	<1	1	<10	1	.2	3	250	<3	9.6

WITHLACOOCHEE RIVER BASIN

02312719 WITHLACOOCHEE RIVER ABOVE WYSONG DAM, AT CARLSON, FL

LOCATION.--Lat 28°49'22", long 82°10'58", in NW¼ sec.23, T.19 S., R.21 E., Sumter County, Hydrologic Unit 03100208, near right bank at upstream end of lock of Wysong Dam at Carlson, 1.8 mi downstream from Outlet River, 2.7 mi southeast of Rutland, and 55 mi upstream from mouth.

DRAINAGE AREA.--1,520 mi², approximately.

PERIOD OF RECORD.--April 1957 to November 1962 (about weekly), December 1962 to current year (gage heights only), March 1963 to July 1965 (discharge measurements and gage heights only). Records of gage heights prior to October 1962 are available in files of the Geological Survey. Prior to October 1967, published as "at Carlson's Landing, near Lake Panasoffkee (auxiliary)."

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Deartment of Transportation bench mark). April 1957 to May 23, 1970, at site 200 feet upstream at datum 34.2 ft higher prior to Dec. 17, 1962, and at present datum thereafter.

REMARKS.--Since August 1965, stage affected by manipulation of inflatable fabri-dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.6 ft in April 1960, from floodmark; minimum observed, about 35.2 ft Apr. 14, May 5, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 39.44 ft Aug. 1; minimum observed, 38.04 ft Sept. 4,5.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.83	39.11	39.18	38.36	38.31	38.39	39.09	39.02	39.26	39.02	39.34	38.20
2	38.79	39.15	39.17	38.36	38.29	38.38	39.07	39.01	39.28	39.07	39.29	38.16
3	38.75	39.14	39.15	38.36	38.78	38.36	39.03	38.99	39.24	39.12	39.29	38.10
4	38.72	39.15	39.16	38.36	39.28	38.35	39.17	38.97	39.24	39.14	39.26	38.06
5	38.67	39.17	39.18	38.34	39.29	38.34	39.21	39.08	39.22	39.13	39.25	38.58
6	38.62	39.17	39.12	38.34	39.26	38.32	39.22	39.15	39.16	39.11	39.25	39.04
7	38.56	39.17	39.12	38.32	39.27	38.36	39.20	39.15	39.09	39.13	39.28	39.01
8	38.53	39.18	39.12	38.32	39.26	38.35	39.18	39.14	39.03	39.13	39.30	39.05
9	38.50	39.15	39.10	38.30	39.27	38.34	38.59	39.15	38.99	39.16	39.29	39.01
10	38.47	39.17	39.05	38.33	39.27	38.31	38.62	39.15	39.04	39.13	39.29	38.93
11	38.46	39.17	39.09	38.34	39.28	38.30	38.55	39.13	39.07	39.12	39.28	39.00
12	38.54	39.18	39.17	38.34	39.28	38.28	38.52	39.12	39.00	39.10	39.29	39.08
13	38.55	39.19	39.18	38.36	39.28	38.33	38.49	39.10	38.93	39.13	39.30	39.06
14	38.53	39.18	39.18	38.36	38.57	38.31	38.48	39.09	38.95	39.11	39.28	39.06
15	38.51	39.17	39.23	38.36	38.50	38.76	38.44	39.07	38.94	39.09	39.25	39.04
16	38.49	39.16	39.21	38.34	38.49	39.17	38.43	39.07	38.96	39.07	39.31	39.03
17	38.46	39.17	39.21	38.34	38.45	39.13	38.42	39.05	38.93	39.05	39.31	39.00
18	38.44	39.17	39.24	38.34	38.41	39.15	38.39	39.00	38.88	39.02	39.31	38.98
19	38.40	39.14	39.24	38.38	38.37	39.15	38.37	38.97	38.81	39.03	39.29	39.01
20	38.35	39.17	39.25	38.38	38.34	39.14	38.33	38.95	38.78	39.02	39.32	38.95
21	38.33	39.19	39.27	38.40	38.32	39.14	38.29	38.94	38.78	38.99	39.09	38.92
22	38.29	39.19	39.27	38.37	38.36	39.15	38.27	38.93	38.79	39.01	38.63	38.91
23	38.25	39.20	39.25	38.36	38.42	39.16	38.24	39.02	38.88	39.04	38.59	38.91
24	38.25	39.19	39.22	38.36	38.39	39.15	38.23	39.00	38.88	39.02	38.57	38.88
25	38.21	39.17	39.20	38.37	38.37	39.15	38.19	39.05	38.85	39.01	38.55	38.89
26	38.17	39.18	39.24	38.68	38.33	39.13	38.63	39.12	38.9	39.01	38.51	38.86
27	38.13	39.21	39.25	38.42	38.34	39.16	39.04	39.14	38.88	39.01	38.46	38.87
28	38.62	39.19	39.21	38.39	38.44	39.11	39.01	39.18	38.86	39.06	38.42	39.00
29	39.08	39.22	39.17	38.36	38.42	39.07	39.03	39.23	38.92	39.10	38.35	39.04
30	39.05	39.21	38.39	38.35	---	39.08	39.03	39.24	38.98	39.10	38.29	39.01
31	39.06	---	38.35	38.34	---	39.10	---	39.28	---	39.19	38.24	---
MEAN	38.54	39.17	39.13	38.37	38.71	38.76	38.69	39.08	38.98	39.08	39.02	38.85
MAX	39.08	39.22	39.27	38.68	39.29	39.17	39.22	39.28	39.28	39.19	39.34	39.08
MIN	38.13	39.11	38.35	38.30	38.29	38.28	38.19	38.93	38.78	38.99	38.24	38.06

CAL YR 1983	MEAN	38.89	MAX	39.60	MIN	37.73
WTR YR 1984	MEAN	38.87	MAX	39.34	MIN	38.06

AVAILABLE

WITHLACOOCHEE RIVER BASIN

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL

LOCATION.--Lat 28°49'23", long 82°11'00", in NW¼ sec.23, T.19 S., R.21 E., Sumter County, Hydrologic Unit 03100208, at downstream end of left wall of lock of Wysong Dam, at Carlson, 1.8 mi downstream from Outlet River, 2.7 mi southeast of Rutland, and 55 mi upstream from mouth.

DRAINAGE AREA.--1,520 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1965 to September 1980; October 1980 to September 1981 (monthly mean discharge only); October 1981 to current year. April 1957 to July 1965, gage heights and discharge measurements at auxiliary gage site. Prior to October 1967, published as "at Carlson's Landing, near Lake Panasoffkee."

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Auxiliary nonrecording gage at upstream side of lock and dam.

REMARKS.--Records fair. Some diversions above station at times into Tsala Apopka Lake.

AVERAGE DISCHARGE.--19 years, 688 ft³/s, 498,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,920 ft³/s Oct. 11, 1979; maximum gage height, 41.10 ft Oct. 11, 1979; minimum daily discharge, unknown; minimum gage height, 34.84 ft June 2, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,370 ft³/s Oct. 1, Feb. 14; maximum gage height, 38.75 ft Oct. 1; minimum daily discharge, 539 ft³/s Sept. 26; minimum gage height, 36.96 ft Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	820	760	1200	1220	1280	880	828	980	744	889	917
2	1340	812	756	1200	1210	1270	860	812	960	788	896	900
3	1320	812	756	1210	1100	1260	875	792	950	865	896	886
4	1310	804	744	1210	1040	1250	1020	780	925	890	892	868
5	1280	804	732	1210	1060	1250	1060	905	900	889	878	753
6	1240	796	736	1200	1050	1250	1060	1000	875	882	868	753
7	1210	792	728	1210	1040	1260	1060	1020	870	878	861	733
8	1190	812	716	1200	1020	1250	1040	975	844	875	854	724
9	1180	812	708	1190	1020	1250	1140	940	804	861	850	721
10	1160	800	708	1200	1020	1240	1300	895	764	858	840	736
11	1160	796	692	1220	1000	1230	1260	860	736	858	834	689
12	1180	772	764	1220	990	1210	1250	824	728	850	834	660
13	1200	760	768	1230	1130	1230	1220	796	712	837	831	654
14	1180	756	780	1230	1370	1220	1200	768	676	828	828	648
15	1180	760	808	1230	1340	1100	1190	736	644	822	822	637
16	1160	760	828	1230	1330	1060	1180	700	624	816	825	626
17	1150	744	828	1230	1320	1060	1180	684	640	798	850	614
18	1140	732	824	1230	1300	1040	1160	660	660	795	861	603
19	1120	732	828	1260	1270	1020	1140	648	648	786	861	592
20	1100	764	865	1250	1250	1020	1130	620	628	789	882	598
21	1080	800	865	1260	1220	1040	1120	596	604	792	992	598
22	1060	796	865	1260	1260	1020	1100	612	592	798	1080	578
23	1060	792	870	1250	1290	1000	1080	780	632	792	1060	578
24	1050	788	885	1250	1280	980	1070	740	660	792	1060	564
25	1040	788	875	1260	1260	980	1060	760	668	783	1040	547
26	1020	772	844	1210	1240	965	915	832	652	783	1030	539
27	995	764	828	1280	1240	970	885	905	640	798	1020	542
28	885	764	832	1260	1300	990	870	960	644	798	996	626
29	836	768	1010	1250	1300	965	848	985	692	789	976	631
30	848	768	1200	1250	---	945	840	995	724	813	952	623
31	828	---	1190	1230	---	900	---	990	---	861	938	---
TOTAL	34872	23440	25593	38120	34470	34505	31993	25398	22076	25508	28296	20138
MEAN	1125	781	826	1230	1189	1113	1066	819	736	823	913	671
MAX	1370	820	1200	1280	1370	1280	1300	1020	980	890	1080	917
MIN	828	732	692	1190	990	900	840	596	592	744	822	539
AC-FT	69170	46490	50760	75610	68370	68440	63460	50380	43790	50600	56130	39940

CAL YR 1983 TOTAL 430790 MEAN 1180 MAX 2460 MIN 411 AC-FT 854500
WTR YR 1984 TOTAL 344409 MEAN 941 MAX 1370 MIN 539 AC-FT 683100

WITHLACOOCHEE RIVER BASIN

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM AT CARLSON, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.74	37.60	37.41	38.24	38.22	38.31	37.67	37.68	38.11	37.69	38.04	38.12
2	38.70	37.59	37.39	38.25	38.20	38.30	37.63	37.65	38.08	37.80	38.06	38.07
3	38.67	37.58	37.39	38.26	37.97	38.28	37.67	37.60	38.06	38.00	38.06	38.03
4	38.64	37.55	37.35	38.26	37.85	38.27	37.95	37.57	38.01	38.05	38.05	37.99
5	38.60	37.55	37.32	38.26	37.89	38.26	38.04	37.87	37.97	38.04	38.01	37.71
6	38.55	37.52	37.33	38.25	37.88	38.26	38.05	38.07	37.92	38.02	37.98	37.71
7	38.50	37.51	37.30	38.25	37.86	38.29	38.05	38.09	37.91	38.01	37.96	37.65
8	38.46	37.57	37.26	38.23	37.83	38.27	38.04	38.02	37.86	38.00	37.94	37.63
9	38.43	37.58	37.24	38.21	37.82	38.26	38.23	37.95	37.76	37.96	37.93	37.62
10	38.40	37.54	37.24	38.24	37.81	38.25	38.53	37.87	37.66	37.95	37.90	37.66
11	38.39	37.52	37.19	38.27	37.79	38.23	38.48	37.80	37.60	37.95	37.88	37.54
12	38.44	37.45	37.37	38.26	37.76	38.21	38.45	37.71	37.58	37.93	37.88	37.46
13	38.47	37.40	37.38	38.28	38.04	38.25	38.42	37.65	37.55	37.89	37.87	37.45
14	38.45	37.39	37.40	38.28	38.46	38.24	38.39	37.58	37.46	37.86	37.86	37.43
15	38.43	37.40	37.47	38.28	38.42	38.00	38.37	37.50	37.38	37.84	37.84	37.40
16	38.40	37.40	37.52	38.28	38.40	37.93	38.36	37.42	37.34	37.82	37.85	37.37
17	38.38	37.35	37.52	38.27	38.38	37.93	38.35	37.38	37.38	37.76	37.93	37.34
18	38.36	37.31	37.51	38.27	38.35	37.90	38.33	37.32	37.43	37.75	37.96	37.31
19	38.32	37.31	37.51	38.31	38.30	37.87	38.29	37.30	37.41	37.72	37.96	37.28
20	38.28	37.42	37.60	38.30	38.26	37.88	38.26	37.23	37.36	37.73	38.02	37.29
21	38.25	37.54	37.60	38.31	38.22	37.91	38.24	37.17	37.30	37.74	38.33	37.29
22	38.21	37.52	37.60	38.30	38.28	37.88	38.20	37.22	37.28	37.76	38.55	37.24
23	38.19	37.51	37.61	38.29	38.34	37.86	38.18	37.64	37.38	37.74	38.51	37.24
24	38.18	37.50	37.63	38.28	38.31	37.82	38.16	37.54	37.45	37.74	38.49	37.20
25	38.15	37.50	37.61	38.30	38.29	37.82	38.13	37.60	37.48	37.71	38.46	37.15
26	38.11	37.44	37.54	38.22	38.25	37.80	37.86	37.78	37.44	37.71	38.43	37.13
27	38.06	37.42	37.50	38.32	38.25	37.82	37.80	37.95	37.42	37.76	38.39	37.14
28	37.79	37.42	37.51	38.30	38.35	37.86	37.77	38.06	37.43	37.76	38.34	37.37
29	37.65	37.43	37.87	38.28	38.35	37.82	37.73	38.11	37.55	37.73	38.29	37.38
30	37.67	37.43	38.25	38.27	---	37.78	37.71	38.14	37.64	37.81	38.22	37.36
31	37.63	---	38.23	38.25	---	37.70	---	38.13	---	37.96	38.18	---
MEAN	38.31	37.47	37.50	38.27	38.14	38.04	38.11	37.70	37.61	37.84	38.10	37.49
MAX	38.74	37.60	38.25	38.32	38.46	38.31	38.53	38.14	38.11	38.05	38.55	38.12
MIN	37.63	37.31	37.19	38.21	37.76	37.70	37.63	37.17	37.28	37.69	37.84	37.13

CAL YR 1983 MEAN 37.91 MAX 39.39 MIN 36.27
WTR YR 1984 MEAN 37.88 MAX 38.74 MIN 37.13

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
26...	1143	38.10	1010	240	7.4	24.0	--
FEB							
03...	1230	38.18	1230	260	6.4	15.5	6.2
APR							
16...	1030	38.36	1180	245	6.2	21.0	5.1
AUG							
17...	1100	37.94	847	206	7.0	28.5	2.0

WITHLACOOCHEE RIVER BASIN

02312772 LESLIE-HEIFNER CANAL NEAR FLORAL CITY, FL

LOCATION.--Lat 28°45'12", long 82°13'49", in NW¼ sec.17, T.20 S., R.21 E., Citrus County, Hydrologic Unit 03100208, at upstream side of control structure, 50 ft upstream from bridge on Trail's End Road (revised), 1.4 mi downstream from Withlacoochee River, and 4.1 mi east of Floral City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1964-72, 1982; October 1982 to September 1983 (discharge measurements only); October 1983 to September 1984 (discharge measurements and gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 21, 1983, nonrecording gage at site 50 ft downstream at same datum. Since June 2, 1984, auxiliary water-stage recorder at downstream side of control structure.

REMARKS.--Control structure is usually closed or full open. Discharge at station is a diversion from Withlacoochee River to Tsala Apopka Lake; flow occasionally reversed.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 215 ft^3/s Aug. 26, 1965; maximum reverse flow measured, 20 ft^3/s Apr. 30, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge measured, 47.8 ft^3/s Aug. 16; maximum gage height, 41.73 ft Aug. 31; maximum reverse flow estimated, 17 ft^3/s Nov. 21; minimum gage height, 40.15 ft June 21,22.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM-FLOW, INSTAN-TANEOUS (CFS)
NOV 21...	1220	40.89	-17	JUNE 2...	1155	40.93	.00
JAN 27...	1155	41.63	44	AUG 16...	1200	41.52	48
APR 11...	1240	41.26	16				

WITHLACOOCHEE RIVER BASIN

02312786 THE CANAL (ORANGE STATE CANAL) NEAR FLORAL CITY, FL

LOCATION.--Lat 28°44'48", long 82°15'49", in SW¼ sec.13, T.20 S., R.20 E., Citrus County, Hydrologic Unit 03100208, at upstream side of control structure, 150 ft upstream from bridge on Trail's End Road (revised), 1.1 mi upstream from Tsala Apopka Lake, 2.0 mi east of Floral City, and 2.4 mi downstream from Withlacoochee River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1964-72, 1982; October 1982 to September 1983 (discharge measurements only); October 1983 to September 1984 (discharge measurements and gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 21, 1983, nonrecording gage at site 150 ft downstream at same datum. Since June 2, 1984, auxiliary water-stage recorder at downstream side of control structure.

REMARKS.--Control structure is usually closed or full open. Discharge at station is a diversion from Withlacoochee River to Tsala Apopka Lake; flow occasionally reversed.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured 172 ft³/s Jan. 8, 1970; maximum reverse flow measured, 12 ft³/s Apr. 30, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge measured, 45.5 ft³/s Jan. 27; maximum gage height, 41.48 ft Aug. 21,22,23; maximum reverse flow estimated, 4.3 ft³/s Nov. 21; minimum gage height, 40.06 ft June 20.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)
NOV			APR		
21...	1420	-4.3	11...	1040	17
JAN			JUNE		
27...	1044	46	2...	1015	0

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREAS

WITHLACOOCHEE RIVER BASIN

02312786 THE CANAL (ORANGE STATE CANAL) NEAR FLORAL CITY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	40.69	40.99	41.35	41.18	40.92	40.92	40.87	40.49	40.93	41.33
2		---	40.67	41.02	41.34	41.18	40.88	40.89	40.82	40.51	41.05	41.30
3		---	40.65	41.05	41.32	41.18	40.87	40.86	40.73	40.55	41.08	41.27
4		---	40.64	41.08	41.31	41.18	41.03	40.85	40.64	40.55	41.09	41.25
5		---	40.63	41.10	41.30	41.19	41.05	40.97	40.55	40.55	41.09	41.25
6		---	40.61	41.12	41.28	41.20	41.03	41.00	40.47	40.64	41.09	41.23
7		---	40.62	41.13	41.25	41.23	41.00	40.97	40.41	40.83	41.10	41.21
8		---	40.59	41.15	41.23	41.23	40.98	40.93	40.35	40.89	41.14	41.19
9		---	40.57	41.16	41.21	41.23	41.05	40.91	40.30	40.92	41.15	41.16
10		---	40.55	41.22	41.18	41.23	41.13	40.86	40.25	40.92	41.20	41.14
11		---	40.54	41.25	41.16	41.23	41.11	40.82	40.22	40.91	41.21	41.12
12		---	40.64	41.26	41.14	41.24	41.10	40.78	40.20	40.93	41.21	41.10
13		---	40.63	41.30	41.23	41.27	41.08	40.74	40.20	40.93	41.24	41.08
14		---	40.62	41.31	41.33	41.27	41.07	40.70	40.19	40.92	41.26	41.05
15		---	40.66	41.32	41.31	41.26	41.07	40.66	40.16	40.92	41.25	41.03
16		---	40.66	41.33	41.28	41.24	41.08	40.64	40.14	40.93	41.25	41.00
17		---	40.67	41.34	41.26	41.22	41.08	40.59	40.12	40.93	41.25	40.98
18		---	40.68	41.35	41.24	41.20	41.07	40.50	40.10	40.93	41.25	40.97
19		---	40.68	41.39	41.21	41.18	41.06	40.38	40.09	40.93	41.27	40.98
20		---	40.73	41.40	41.18	41.16	41.06	40.31	40.08	40.94	41.32	40.96
21		40.82	40.74	41.41	41.17	41.17	41.05	40.25	40.22	40.94	41.42	40.94
22		40.81	40.74	41.41	41.22	41.14	41.05	40.23	40.25	40.95	41.48	40.91
23		40.78	40.74	41.40	41.22	41.12	41.04	40.37	40.27	40.92	41.47	40.89
24		40.77	40.74	41.40	41.20	41.10	41.05	40.44	40.27	40.77	41.47	40.86
25		40.77	40.74	41.41	41.17	41.07	41.03	40.51	40.28	40.78	41.46	40.83
26		40.74	40.72	41.42	41.15	41.05	41.01	40.60	40.28	40.79	41.46	40.81
27		40.72	40.71	41.41	41.16	41.07	41.00	40.72	40.29	40.79	41.45	40.81
28		40.72	40.71	41.41	41.20	41.04	40.98	40.86	40.31	40.79	41.42	40.94
29		40.72	40.86	41.40	41.20	41.01	40.96	40.91	40.30	40.86	41.40	40.92
30		40.71	40.97	41.38	---	40.98	40.94	40.92	40.29	40.91	41.37	40.89
31		---	40.98	41.37	---	40.95	---	40.89	---	40.92	41.35	---
MEAN		---	40.69	41.28	41.23	41.16	41.03	40.71	40.32	40.82	41.26	41.05
MAX		---	40.98	41.42	41.35	41.27	41.13	41.00	40.87	40.95	41.48	41.33
MIN		---	40.54	40.99	41.14	40.95	40.87	40.23	40.08	40.49	40.93	40.81

02312975 TSALA APOPKA OUTFALL CANAL AT S-353, NEAR HERNANDO, FL

LOCATION.--Lat 28°57'19", long 82°20'13", in NE¼ sec.6, T.18 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on left bank at control structure 353, on graded road 2.3 mi northeast of Hernando, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Auxiliary gage at downstream side of control structure.

REMARKS.--Records fair. Flow regulated by manipulation of gates in spillway.

COOPERATION.--Gate-opening record furnished by Southwest Florida Water Management District.

AVERAGE DISCHARGE.--16 years, 22.7 ft³/s, 16,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 410 ft³/s Sept. 4, 1968; maximum gage height, 39.48 ft Dec. 10, 1969, affected by wind; no flow for many days in some years; minimum gage height, 35.85 ft Dec. 25,26, 1981, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 236 ft³/s May 11-21, July 4-11; maximum gage height, 39.39 ft May 8; gates closed and flow consisted of leakage, estimated as 0.20 ft³/s for many days; minimum gage height, 37.78 ft July 19,25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.20	78	78	118	118	72	.20	180	118	.20	.20
2	.20	.20	78	78	59	118	72	.20	180	118	.20	.20
3	.20	.20	78	78	.20	57	36	.20	180	167	59	.20
4	.20	.20	78	78	.20	.20	.20	.20	180	236	118	.20
5	.20	.20	42	78	.20	.20	.20	.20	115	236	118	.20
6	.20	.20	.20	39	.20	.20	.20	.20	72	236	118	.20
7	.20	.20	.20	.20	.20	.20	.20	.20	72	236	118	.20
8	.20	.20	.20	.20	.20	.20	.20	86	72	236	118	.20
9	.20	.20	.20	.20	.20	.20	.20	118	72	236	118	.20
10	.20	.20	.20	59	.20	.20	36	187	72	236	118	.20
11	.20	.20	.20	118	.20	.20	72	236	72	236	118	.20
12	.20	.20	.20	118	.20	.20	72	236	33	219	118	.20
13	.20	.20	.20	118	.20	.20	72	236	.20	190	118	.20
14	.20	.20	21	118	61	.20	72	236	.20	190	59	.20
15	.20	.20	45	118	118	.20	72	236	.20	190	.20	.20
16	.20	.20	45	118	118	.20	72	236	.20	190	.20	.20
17	.20	.20	45	118	118	.20	72	236	.20	190	.20	.20
18	.20	.20	45	118	118	.20	72	236	.20	190	.20	.20
19	35	.20	45	118	118	.20	72	236	.20	190	.20	.20
20	56	.20	22	118	118	.20	72	236	.20	190	.20	.20
21	56	.20	.20	118	118	.20	72	236	.20	190	.20	.20
22	56	.20	.20	118	118	.20	72	64	.20	190	.20	.20
23	56	.20	.20	118	118	.20	72	.20	.20	190	.20	.20
24	56	.20	.20	66	118	.20	72	46	.20	154	.20	.20
25	56	.20	.20	.20	118	.20	72	72	.20	118	.20	.20
26	56	.20	.20	49	118	.20	72	72	.20	59	.20	.20
27	27	.20	.20	118	118	33	72	72	49	.20	.20	.20
28	.20	19	.20	118	118	72	72	72	118	.20	.20	.20
29	.20	59	37	118	118	72	15	72	118	.20	.20	.20
30	.20	78	78	118	---	72	.20	72	118	.20	.20	.20
31	.20	---	78	118	---	72	---	135	---	.20	.20	---
TOTAL	458.40	161.40	818.20	2727.80	2010.20	618.60	1528.40	3665.60	1705.80	4932.00	1301.80	6.00
MEAN	14.8	5.38	26.4	88.0	69.3	20.0	50.9	118	56.9	159	42.0	.20
MAX	56	78	78	118	118	118	72	236	180	236	118	.20
MIN	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
AC-FT	909	320	1620	5410	3990	1230	3030	7270	3380	9780	2580	12

CAL YR 1983	TOTAL	16100.00	MEAN	44.1	MAX	272	MIN	.20	AC-FT	31930
WTR YR 1984	TOTAL	19934.20	MEAN	54.5	MAX	236	MIN	.20	AC-FT	39540

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312975 TSALA APOPKA OUTFALL CANAL AT S-353, NEAR HERNANDO, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.78	38.95	38.92	38.90	38.67	38.78	38.53	38.50	38.31	38.40	38.28	38.09
2	38.79	38.95	38.88	38.87	38.68	38.78	38.50	38.51	38.24	38.35	38.38	38.08
3	38.80	38.95	38.85	38.85	38.76	38.74	38.51	38.53	38.18	38.30	38.44	38.07
4	38.80	38.95	38.83	38.82	38.81	38.73	38.75	38.75	38.12	38.27	38.35	38.06
5	38.81	38.95	38.85	38.80	38.82	38.72	38.78	39.34	38.12	38.20	38.25	38.05
6	38.81	38.94	38.85	38.79	38.80	38.75	38.78	39.35	38.15	38.14	38.20	38.08
7	38.80	38.94	38.85	38.81	38.79	38.69	38.77	39.38	38.13	38.09	38.15	38.07
8	38.82	38.99	38.86	38.83	38.79	38.66	38.76	39.34	38.11	38.03	38.10	38.06
9	38.84	39.00	38.86	38.84	38.79	38.70	38.85	39.25	38.10	37.97	38.05	38.05
10	38.83	39.00	38.86	38.87	38.80	38.71	38.94	39.16	38.08	37.92	38.00	38.04
11	38.84	38.98	38.88	38.82	38.80	38.71	38.89	39.06	38.06	37.89	37.95	38.02
12	38.86	38.95	39.03	38.76	38.79	38.71	38.88	38.98	38.08	37.89	37.90	38.01
13	38.94	38.94	39.02	38.75	38.83	38.77	38.87	38.90	38.13	37.88	37.89	38.00
14	39.00	38.93	39.02	38.74	38.86	38.74	38.85	38.83	38.18	37.88	37.88	37.98
15	39.02	38.93	39.00	38.72	38.82	38.73	38.83	38.75	38.21	37.85	37.88	37.97
16	39.04	38.92	38.96	38.71	38.79	38.73	38.81	38.66	38.22	37.84	37.89	37.97
17	39.06	38.90	38.93	38.70	38.75	38.73	38.79	38.58	38.24	37.8[illegible]	37.89	37.96
18	39.07	38.88	38.91	38.70	38.74	38.72	38.76	38.51	38.25	37.79	37.90	37.95
19	39.05	38.88	38.89	38.74	38.72	38.72	38.73	38.44	38.25	37.78	37.90	37.95
20	39.02	38.95	38.88	38.70	38.70	38.74	38.70	38.38	38.24	37.80	37.90	37.94
21	39.00	39.02	38.89	38.68	38.67	38.74	38.68	38.31	38.23	37.83	38.05	37.94
22	39.00	39.02	38.91	38.67	38.75	38.72	38.67	38.37	38.26	37.84	38.15	37.92
23	39.03	39.02	38.92	38.68	38.82	38.70	38.66	38.52	38.37	37.83	38.18	37.90
24	39.02	39.04	38.93	38.71	38.80	38.70	38.61	38.52	38.44	37.80	38.18	37.90
25	39.00	39.02	38.88	38.77	38.78	38.71	38.57	38.52	38.43	37.78	38.19	37.88
26	38.98	39.01	38.87	38.79	38.75	38.69	38.55	38.52	38.42	37.80	38.20	37.86
27	38.95	39.02	38.88	38.78	38.80	38.70	38.52	38.53	38.39	37.90	38.18	37.85
28	38.95	39.03	38.90	38.74	38.85	38.79	38.49	38.56	38.29	37.95	38.17	37.95
29	38.95	39.04	39.02	38.72	38.81	38.66	38.49	38.57	38.33	38.00	38.14	38.05
30	38.95	38.98	38.99	38.71	---	38.60	38.50	38.54	38.41	38.05	38.12	38.08
31	38.95	---	38.93	38.68	---	38.56	---	38.43	---	38.15	38.10	---
MEAN	38.93	38.97	38.91	38.76	38.78	38.71	38.70	38.73	38.23	37.97	38.09	37.99
MAX	39.07	39.04	39.03	38.90	38.86	38.79	38.94	39.38	38.44	38.40	38.44	38.09
MIN	38.78	38.88	38.83	38.67	38.67	38.56	38.49	38.31	38.06	37.78	37.88	37.85

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CAL YR 1983  MEAN    38.62     MAX    39.16     MIN    37.78
WTR YR 1984  MEAN    38.56     MAX    39.38     MIN    37.78
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WITHLACOOCHEE RIVER BASIN

02312975 TSALA APOPKA OUTFALL CANAL AT S-353, NEAR HERNANDO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948. 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
DEC									
08...	1300	38.86	.50	113	7.3	21.5	--	--	6.3
JAN									
31...	1600	38.68	99	116	5.7	15.5	--	--	8.3
APR									
05...	0925	38.78	E.25	117	5.8	20.0	--	--	7.1
JUN									
13...	1340	38.13	E.25	109	7.1	31.0	25	1.3	6.3
AUG									
28...	1410	38.17	.50	124	7.0	31.0	23	--	7.4

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
DEC									
08...	--	--	--	--	--	--	--	--	--
JAN									
31...	--	--	--	--	--	--	--	--	--
APR									
05...	--	--	--	--	--	--	--	--	--
JUN									
13...	16	1.4	5.0	.20	<.2	9.2	.10	.6	84
AUG									
28...	15	1.2	4.1	.10	4.3	7.8	.10	.4	61

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC									
08...	<.010	<.02	.020	.52	.54	.020	<.010	--	--
JAN									
31...	--	--	--	--	--	--	--	--	--
APR									
05...	.010	<.10	.060	.64	.70	<.010	.020	--	--
JUN									
13...	<.010	<.10	<.010	--	1.0	.100	<.010	47	13
AUG									
28...	<.010	<.10	<.010	--	.70	<.010	<.010	50	12

02312976 TSALA APOPKA OUTFALL CANAL BELOW S-353, NEAR HERNANDO, FL

LOCATION.--Lat 28°57'19", long 82°20'13", in NE¼ sec.6, T.18 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on left bank at control structure 353, on graded road 2.3 mi northeast of Hernando, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--July 1968 to current year (gage heights only).

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 37.02 ft Oct. 14, 1979; minimum, 27.75 ft Nov. 13, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 33.36 ft May 6; minimum, 30.04 ft June 22.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.74	31.07	31.22	32.59	32.70	32.92	31.30	30.92	32.17	31.59	32.00	32.15
2	32.69	30.97	31.16	32.72	32.55	32.87	31.25	30.82	32.17	31.49	32.10	32.05
3	32.65	30.90	31.12	32.77	32.31	32.82	31.20	30.71	32.13	31.65	32.15	31.95
4	32.58	30.86	31.09	32.81	32.21	32.77	31.68	31.08	32.06	32.11	32.21	31.85
5	32.50	30.90	30.86	32.82	31.97	32.72	31.93	33.05	31.89	32.23	32.18	31.80
6	32.41	30.91	30.60	32.72	31.78	32.70	31.92	33.34	31.68	32.22	32.10	31.70
7	32.33	30.86	30.55	32.52	31.64	32.69	31.86	33.28	31.56	32.18	32.00	31.55
8	32.27	30.94	30.50	32.41	31.57	32.53	31.78	33.20	31.45	32.11	31.95	31.35
9	32.25	30.97	30.42	32.35	31.52	32.30	31.87	33.07	31.35	32.08	31.90	31.20
10	32.24	30.96	30.37	32.45	31.49	32.21	32.26	32.87	31.25	32.06	31.85	31.10
11	32.18	30.90	30.39	32.68	31.46	32.15	32.59	32.69	31.13	32.01	31.80	31.05
12	32.22	30.80	30.83	32.71	31.44	32.09	32.75	32.42	30.92	32.04	31.75	31.00
13	32.33	30.70	30.88	32.74	31.51	32.10	32.79	32.16	30.65	32.03	31.70	30.90
14	32.44	30.60	30.95	32.76	31.97	32.08	32.76	31.93	30.59	31.96	31.55	30.80
15	32.49	30.54	31.18	32.76	32.53	32.05	32.69	31.72	30.51	31.87	31.45	30.70
16	32.61	30.57	31.25	32.75	32.82	31.95	32.60	31.53	30.37	31.75	31.42	30.60
17	32.45	30.53	31.28	32.75	32.95	31.78	32.50	31.35	30.25	31.65	31.39	30.55
18	32.32	30.49	31.28	32.75	33.00	31.64	32.40	31.19	30.25	31.55	31.39	30.55
19	32.28	30.45	31.27	32.89	32.99	31.53	32.30	31.06	30.25	31.43	31.45	30.57
20	32.27	30.59	31.20	32.92	32.94	31.47	32.23	30.97	30.22	31.65	31.55	30.55
21	32.21	30.92	31.10	32.91	32.89	31.49	32.17	30.87	30.15	32.02	31.70	30.52
22	32.16	30.96	31.10	32.89	32.97	31.43	32.11	30.48	30.14	31.90	31.90	30.48
23	32.21	30.94	31.11	32.86	33.19	31.40	32.05	30.60	30.50	31.85	32.20	30.40
24	32.15	30.90	31.12	32.79	33.14	31.39	31.98	30.93	30.79	31.70	32.45	30.35
25	32.11	30.90	31.08	32.63	33.06	31.38	31.89	31.16	30.62	31.40	32.60	30.30
26	32.03	30.83	31.04	32.63	32.95	31.36	31.82	31.27	30.51	31.10	32.64	30.28
27	31.90	30.77	31.00	32.77	32.93	31.43	31.67	31.34	30.53	31.30	32.60	30.25
28	31.70	30.78	30.98	32.77	33.05	31.57	31.48	31.57	30.70	31.82	32.50	30.70
29	31.57	31.10	31.44	32.76	33.00	31.57	31.23	31.77	30.92	31.50	32.45	31.00
30	31.35	31.26	32.10	32.75	---	31.42	31.04	31.87	31.45	31.30	32.35	30.95
31	31.18	---	32.35	32.72	---	31.34	---	32.01	---	31.70	32.25	---
MEAN	32.22	30.83	31.06	32.72	32.43	31.97	32.00	31.72	30.97	31.78	31.98	30.97
MAX	32.74	31.26	32.35	32.92	33.19	32.92	32.79	33.34	32.17	32.23	32.64	32.15
MIN	31.18	30.45	30.37	32.35	31.44	31.34	31.04	30.48	30.14	31.10	31.39	30.25

CAL YR 1983	MEAN	32.10	MAX	35.18	MIN	29.94
WTR YR 1984	MEAN	31.72	MAX	33.34	MIN	30.14

02312976 TSALA APOPKA OUTFALL CANAL BELOW S-353, NEAR HERNANDO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC							
08...	1310	30.50	137	7.2	21.5	7.0	--
JAN							
31...	1615	32.71	113	5.9	15.0	8.7	--
APR							
05...	0930	31.93	153	6.0	20.0	6.7	--
JUN							
13...	1345	30.65	112	7.2	30.5	6.8	11
AUG							
28...	1420	32.51	128	7.2	31.0	9.0	12

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL
(National stream-quality accounting network station)

LOCATION.--Lat 28°59'19", long 82°20'59", in NW¼ sec.30, T.17 S., R.20 E., Marion County, Hydrologic Unit 03100208, near right bank on downstream side of bridge on State Highway 200, 4.5 mi northeast of Holder, and 38 mi upstream from mouth.

DRAINAGE AREA.--1,825 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to February 1929, August 1931 to current year.

REVISED RECORDS.--WDR-FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 27.52 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Aug. 14, 1928, to Feb. 15, 1929, nonrecording gage at present site at datum 2.00 ft higher. Aug. 29, 1931, to May 19, 1961, water-stage recorder at site 100 ft downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years (water years 1932-84), 1,098 ft³/s, 8.17 in/yr, 795,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft³/s Apr. 5, 1960, gage height, 13.28 ft; minimum, 112 ft³/s June 18, 1956; minimum gage height, -0.41 ft June 19, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft³/s May 6, gage height, 5.90 ft; minimum, 841 ft³/s June 22, gage height, 2.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	1140	1180	1660	1700	1790	1210	1110	1490	1290	1440	1500
2	1720	1110	1170	1710	1660	1770	1200	1080	1500	1260	1480	1460
3	1700	1090	1150	1730	1580	1760	1190	1050	1480	1320	1480	1420
4	1680	1080	1140	1750	1530	1740	1330	1050	1450	1460	1520	1390
5	1650	1100	1100	1750	1440	1720	1420	1760	1410	1500	1490	1370
6	1620	1100	1020	1730	1360	1700	1420	1970	1330	1500	1460	1340
7	1590	1080	1000	1650	1320	1700	1390	1970	1300	1480	1440	1280
8	1560	1110	972	1620	1290	1650	1370	1920	1260	1460	1420	1220
9	1560	1120	949	1610	1280	1570	1400	1870	1230	1440	1400	1180
10	1550	1120	936	1630	1270	1530	1560	1780	1200	1440	1380	1160
11	1530	1100	943	1700	1260	1500	1690	1710	1170	1420	1350	1140
12	1540	1060	1080	1700	1260	1480	1750	1600	1110	1440	1340	1120
13	1590	1030	1090	1720	1270	1490	1760	1490	1030	1440	1340	1090
14	1640	1000	1110	1720	1420	1480	1750	1400	1010	1410	1320	1060
15	1640	987	1180	1730	1640	1470	1720	1320	981	1370	1260	1040
16	1690	995	1190	1720	1760	1430	1680	1270	935	1340	1260	1010
17	1640	983	1200	1720	1810	1360	1640	1210	902	1300	1250	994
18	1590	972	1200	1720	1820	1310	1600	1160	901	1280	1250	992
19	1560	962	1200	1780	1820	1280	1560	1120	905	1260	1260	986
20	1560	1010	1180	1790	1800	1270	1530	1090	893	1280	1300	985
21	1530	1110	1160	1780	1780	1270	1510	1060	870	1410	1330	978
22	1510	1120	1160	1780	1810	1250	1490	980	873	1360	1410	971
23	1530	1110	1170	1770	1900	1240	1470	995	986	1350	1530	958
24	1520	1110	1170	1740	1880	1240	1440	1090	1060	1300	1630	945
25	1490	1100	1150	1680	1850	1240	1410	1160	1010	1250	1670	930
26	1450	1080	1140	1680	1810	1230	1380	1210	976	1210	1690	914
27	1400	1060	1130	1730	1800	1250	1340	1220	983	1230	1680	908
28	1330	1060	[illegible]30	1730	1840	1290	1280	1290	1020	1340	1650	1080
29	1290	1150	1250	1730	1820	1290	1220	1360	1100	1270	1620	1140
30	1230	1190	1480	1720	---	1250	1150	1400	1250	1250	1580	1110
31	1180	---	1580	1710	---	1220	---	1420	---	1390	1540	---
TOTAL	47810	32239	35510	53190	46780	44770	43860	42115	33615	42050	44770	33671
MEAN	1542	1075	1145	1716	1613	1444	1462	1359	1121	1356	1444	1122
MAX	1740	1190	1580	1790	1900	1790	1760	1970	1500	1500	1690	1500
MIN	1180	962	936	1610	1260	1220	1150	980	870	1210	1250	908
CFSM	.84	.59	.63	.94	.88	.79	.80	.74	.61	.74	.79	.61
IN.	.97	.66	.72	1.08	.95	.91	.89	.86	.69	.86	.91	.69
AC-FT	94830	63950	70430	105500	92790	88800	87000	83540	66680	83410	88800	66790

CAL YR 1983 TOTAL 561218 MEAN 1538 MAX 2810 MIN 794 CFSM .84 IN. 11.44 AC-FT 1113000
WTR YR 1984 TOTAL 500380 MEAN 1367 MAX 1970 MIN 870 CFSM .75 IN. 10.20 AC-FT 992500

AVAILABLE

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.28	3.61	3.73	5.08	5.17	5.41	3.83	3.51	4.65	4.10	4.53	4.67
2	5.24	3.51	3.68	5.20	5.07	5.36	3.79	3.40	4.66	3.99	4.63	4.58
3	5.17	3.44	3.64	5.26	4.88	5.32	3.75	3.30	4.63	4.17	4.63	4.47
4	5.13	3.41	3.61	5.30	4.76	5.27	4.23	3.28	4.56	4.58	4.72	4.39
5	5.06	3.45	3.46	5.31	4.52	5.23	4.47	5.33	4.44	4.69	4.67	4.35
6	4.98	3.45	3.20	5.24	4.32	5.18	4.46	5.85	4.24	4.68	4.59	4.27
7	4.90	3.41	3.13	5.06	4.18	5.18	4.40	5.85	4.12	4.63	4.53	4.06
8	4.83	3.49	3.04	4.99	4.11	5.06	4.34	5.72	4.01	4.57	4.46	3.87
9	4.82	3.52	2.96	4.94	4.06	4.85	4.44	5.61	3.90	4.54	4.42	3.73
10	4.81	3.52	2.92	4.99	4.03	4.76	4.83	5.37	3.80	4.53	4.36	3.65
11	4.75	3.46	2.94	5.17	4.00	4.69	5.15	5.20	3.69	4.48	4.31	3.60
12	4.78	3.35	3.39	5.19	3.99	4.64	5.30	4.93	3.49	4.53	4.28	3.53
13	4.90	3.25	3.44	5.23	4.05	4.65	5.34	4.67	3.23	4.52	4.28	3.43
14	5.02	3.15	3.50	5.24	4.47	4.63	5.30	4.42	3.15	4.45	4.20	3.34
15	5.03	3.09	3.72	5.25	5.03	4.60	5.22	4.21	3.07	4.35	3.99	3.25
16	5.15	3.12	3.78	5.24	5.32	4.51	5.13	4.02	2.92	4.25	3.99	3.17
17	5.02	3.08	3.81	5.24	5.45	4.32	5.02	3.83	2.80	4.15	3.97	3.11
18	4.89	3.04	3.81	5.24	5.49	4.18	4.92	3.66	2.80	4.07	3.97	3.11
19	4.83	3.01	3.81	5.37	5.49	4.08	4.83	3.53	2.81	4.00	4.00	3.09
20	4.82	3.16	3.75	5.40	5.44	4.02	4.77	3.43	2.77	4.07	4.12	3.08
21	4.75	3.49	3.66	5.39	5.38	4.03	4.71	3.34	2.70	4.44	4.23	3.06
22	4.70	3.53	3.67	5.36	5.46	3.97	4.65	3.07	2.71	4.31	4.45	3.04
23	4.76	3.51	3.69	5.35	5.67	3.94	4.59	3.12	3.09	4.30	4.76	2.99
24	4.72	3.49	3.68	5.30	5.62	3.92	4.53	3.43	3.35	4.15	4.99	2.95
25	4.65	3.46	3.62	5.14	5.55	3.92	4.45	3.66	3.16	3.98	5.11	2.90
26	4.56	3.39	3.59	5.12	5.45	3.90	4.38	3.82	3.05	3.83	5.16	2.84
27	4.43	3.34	3.57	5.26	5.43	3.97	4.27	3.88	3.08	3.90	5.12	2.82
28	4.24	3.34	3.55	5.26	5.53	4.11	4.07	4.11	3.19	4.25	5.05	3.41
29	4.10	3.63	3.97	5.25	5.47	4.09	3.87	4.32	3.48	4.02	4.97	3.58
30	3.89	3.78	4.62	5.24	---	3.95	3.64	4.42	3.97	3.98	4.88	3.51
31	3.72	---	4.87	5.21	---	3.87	---	4.49	---	4.39	4.78	---
MEAN	4.77	3.38	3.61	5.22	4.94	4.50	4.56	4.22	3.52	4.29	4.52	3.53
MAX	5.28	3.78	4.87	5.40	5.67	5.41	5.34	5.85	4.66	4.69	5.16	4.67
MIN	3.72	3.01	2.92	4.94	3.99	3.87	3.64	3.07	2.70	3.83	3.97	2.82

CAL YR 1983 MEAN 4.63 MAX 7.60 MIN 2.45
WTR YR 1984 MEAN 4.26 MAX 5.85 MIN 2.70

WITHLACOOCHEE RIVER BASIN

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-52, 1954 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1950 to December 1951, October 1962 to September 1983 (discontinued).
WATER TEMPERATURE: January 1950 to December 1951, October 1962 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 770 micromhos Sept. 12, 1979; minimum observed, 114 micromhos Oct. 10, 1979.
WATER TEMPERATURE: Maximum observed, 33.0°C July 17, 1950; minimum observed, 5.0°C Jan. 10, 1970, Jan. 19, 1977.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 102 micromhos was observed on Apr. 6, 1960.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT 04...	1445	5.12	1640	198	7.3	25.5	--	--	--	--	--	--
DEC 08...	1530	3.03	947	285	--	19.0	--	--	--	--	--	--
FEB 02...	1245	5.09	1660	--	--	17.5	--	--	--	--	--	--
APR 05...	0810	4.47	1420	240	--	18.5	--	--	--	--	--	--
AUG 28...	0925	5.06	1480	225	--	24.5	--	--	--	--	--	--
SEP 06...	1051	4.27	1300	224	7.2	26.0	2.0	3.5	40	3.2	4.2	.40

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL (MG/L AS PO4) (71886)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
OCT 04...	--	--	--	--	--	.38	.040	.50	.060	.18	.080	.25
SEP 06...	10	8.3	<.10	7.9	168	<.10	.030	.60	.080	--	.050	.15

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)
SEP 06...	10	<1	15	1.0	<1	<1	<3	2	290	1	<4

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
AUG 28...	--	--	--	--	--	--	--	--	16	--	--
SEP 06...	7	.2	<10	1	<1	190	<6	30	--	4	50

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02313100 RAINBOW SPRINGS NEAR DUNNELLON, FL

LOCATION.--Lat 29°06'08", long 82°26'16", in SE¼ sec.12, T.16 S., R.18 E., Marion County, Hydrologic Unit 03100208, at head of springs, 3.9 mi north of Dunnellon, and 5.7 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1899, 1905, 1907, 1917, 1929-30 (one discharge measurement each water year), October 1930 to November 1964 (discharge measurements only), December 1964 to current year. Prior to October 1940, published as Blue Springs near Dunnellon.

GAGE.--Nonrecording gage. Datum of gage is 28.34 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 19, 1948, at datum 1.63 ft higher. No gage prior to Oct. 8, 1930, Oct. 8, 1930, to Apr. 1, 1933, and Apr. 1, 1969 to Mar. 31, 1971, nonrecording gage or water-stage recorder, and April 1933, to March 1969, and since April 1971, nonrecording gage read at time of discharge measurements only.

REMARKS.--Records good. Discharge measurements made at bridge on State Highway 484, 5 mi downstream from head of springs; surface inflow between springs and measuring site is negligible except after heavy rains. Discharge computed from relation between artesian pressure at Rainbow Springs well and discharge at measuring site. Artesian pressures are published as water levels for Rainbow Springs Well (290514082270701) in WDR FL-83-3B.

AVERAGE DISCHARGE.--19 years (water years 1966-84), 725 ft³/s, 469 mgd.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 1,230 ft³/s Oct. 12, 1964; maximum gage height observed, 5.90 ft Apr. 5, 1960; minimum discharge measured, 487 ft³/s Oct. 3, 1932, Apr. 4, 1957; minimum gage height observed, 1.50 ft July 20, Sept. 14, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 891 ft³/s Oct. 17-18; maximum gage height observed, 3.10 ft Oct. 5; minimum daily discharge, 816 ft³/s June 19,20,26; minimum gage height observed, 2.74 ft June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	873	875	851	832	836	837	820	840	841	825	854	866
2	875	874	850	833	836	837	822	839	839	825	854	866
3	876	873	850	835	837	837	825	839	839	826	854	866
4	878	873	850	837	837	836	833	839	838	827	854	866
5	877	873	849	839	836	836	837	845	836	828	858	865
6	878	873	848	840	833	836	837	850	834	830	862	865
7	878	873	845	840	831	837	836	850	832	831	863	864
8	878	876	842	838	830	835	833	849	830	831	863	862
9	880	875	840	837	829	835	834	851	829	831	863	862
10	882	875	839	839	828	833	835	851	827	832	862	862
11	883	872	838	838	828	832	837	851	825	832	862	861
12	885	869	842	836	828	830	840	850	825	833	862	858
13	887	867	841	836	830	831	843	848	825	833	863	857
14	887	864	840	836	832	829	845	846	823	833	864	856
15	888	862	838	836	831	826	848	843	823	837	865	855
16	890	861	838	836	832	826	849	841	821	839	865	853
17	891	858	839	836	834	826	849	839	819	838	865	851
18	891	856	839	836	836	826	847	837	818	838	866	850
19	890	856	839	838	837	827	846	836	816	837	866	851
20	888	858	838	838	839	828	845	836	816	837	867	852
21	887	858	838	838	844	829	845	835	817	839	867	851
22	887	857	837	837	846	829	845	834	821	845	867	849
23	888	857	837	837	846	828	848	837	822	849	868	846
24	889	857	836	838	846	827	848	838	820	850	868	845
25	889	855	834	838	843	826	846	838	817	852	868	844
26	888	854	833	838	840	825	844	839	816	852	869	842
27	884	854	832	838	839	824	843	840	821	852	869	841
28	880	853	832	838	839	823	842	840	825	852	868	845
29	878	852	832	838	838	822	843	844	825	853	868	847
30	878	852	832	837	---	821	842	845	824	852	867	848
31	877	---	832	836	---	820	---	844	---	853	867	---
TOTAL	27380	25912	26031	25949	24241	25714	25207	26114	24764	25992	26778	25646
MEAN	883	864	840	837	836	829	840	842	825	838	864	855
MAX	891	876	851	840	846	837	849	851	841	853	869	866
MIN	873	852	832	832	828	820	820	834	816	825	854	841
AC-FT	54310	51400	51630	51470	48080	51000	50000	51800	49120	51560	53110	50870

CAL YR 1983 TOTAL 297989 MEAN 816 MAX 891 MIN 761 AC-FT 591100
WTR YR 1984 TOTAL 309728 MEAN 846 MAX 891 MIN 816 AC-FT 614300

WITHLACOOCHEE RIVER BASIN

02313100 RAINBOW SPRINGS NEAR DUNNELLON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1961, 1963 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JUN											
14...	1130	32.02	826	120	8.2	24.0	3	<1.0	7.5	18	2.9
AUG											
22...	1641	32.48	812	125	8.4	23.0	1	.40	7.3	17	3.0

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
JUN										
14...	2.2	.20	4.4	3.5	.10	6.7	67	<.010	.30	.110
AUG										
22...	2.1	.10	5.1	3.6	.10	6.4	69	<.010	.40	.010

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
JUN										
14...	.19	.30	.60	.030	.030	<10	1	1	4	<10
AUG										
22...	.49	.50	.90	.030	.040	20	<1	1	3	190

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JUN										
14...	9	1	1	<10	<1	.1	2	45	17	<.10
AUG										
22...	3	3	3	10	<1	<.1	2	44	16	.10

WITHLACOOCHEE RIVER BASIN

02313200 WITHLACOOCHEE RIVER AT DUNNELLON, FL

LOCATION.--Lat 29°02'45", long 82°27'53", in NW¼ sec.35, T.16 S., R.18 E., Marion County, Hydrologic Unit 03100208, near right bank 50 ft upstream from bridge on U.S. Highway 41 at Dunnellon, 0.6 mi downstream from Blue Run, 0.8 mi upstream from Lake Rousseau, and 25 mi upstream from mouth.

DRAINAGE AREA.--1,960 mi², approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February 1963 to current year (gage heights only).

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Stage regulated by Lake Rousseau.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 29.64 ft Sept. 12, 1964; minimum, 23.10 ft, estimated, Oct. 11, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1931, 33.0 ft in April 1960, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 28.74 ft Feb. 23; minimum observed, 27.42 ft Dec. 10, 11.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.40	27.88	27.90	28.08	28.00	28.30	27.90	28.10	28.22	28.40	28.40	28.30
2	28.36	28.08	27.86	28.10	27.98	28.30	28.10	27.98	28.30	28.26	28.48	28.28
3	28.30	28.08	27.82	28.20	27.92	28.30	28.14	27.90	28.28	28.16	28.36	28.22
4	28.30	28.06	27.82	28.26	27.90	28.28	28.58	27.92	28.26	28.18	28.28	28.20
5	28.20	28.08	27.76	28.32	27.82	28.26	28.62	28.68	28.24	28.20	28.26	28.18
6	28.20	28.06	27.72	28.34	27.72	28.26	28.44	28.58	28.16	28.28	28.24	28.16
7	28.20	28.00	27.72	28.28	27.66	28.30	28.16	28.30	28.08	28.28	28.20	28.16
8	28.20	28.08	27.64	28.18	27.62	28.24	28.00	28.40	28.02	28.26	28.18	28.14
9	28.20	28.08	27.44	28.10	27.58	28.12	28.10	28.54	28.02	28.24	28.12	28.10
10	28.28	28.08	27.42	28.04	27.60	28.06	28.22	28.56	28.00	28.26	28.20	28.10
11	28.28	28.04	27.42	28.08	27.64	27.96	28.36	28.50	28.08	28.24	28.28	28.10
12	28.36	28.00	27.62	28.14	27.68	27.88	28.50	28.42	28.10	28.20	28.34	28.04
13	28.40	27.70	27.72	28.14	27.72	27.82	28.58	28.30	28.00	28.24	28.24	28.10
14	28.46	27.68	27.80	28.10	27.82	27.76	28.52	28.20	28.00	28.20	28.24	28.06
15	28.44	27.50	27.90	28.04	28.02	27.72	28.48	28.18	28.00	28.20	28.26	27.96
16	28.56	27.54	27.92	28.02	28.22	27.78	28.40	28.16	27.90	28.16	28.30	27.98
17	28.42	27.58	27.94	28.00	28.36	27.80	28.32	28.10	27.88	28.12	28.38	27.94
18	28.30	27.60	27.94	28.04	28.48	27.80	28.26	28.06	27.88	28.10	28.28	27.96
19	28.28	27.64	27.94	28.06	28.60	27.84	28.20	28.04	27.90	28.10	28.20	27.94
20	28.26	27.66	27.96	28.14	28.62	27.80	28.24	28.08	27.90	28.08	28.16	28.08
21	28.20	27.86	27.94	28.10	28.64	27.90	28.28	28.08	27.86	28.30	28.20	28.06
22	28.22	27.84	27.94	28.08	28.64	27.90	28.32	28.08	27.90	28.32	28.28	28.02
23	28.28	27.84	27.92	28.04	28.74	27.92	28.30	28.06	28.10	28.26	28.36	27.98
24	28.28	27.84	27.96	28.04	28.56	28.04	28.26	28.06	28.24	28.28	28.40	27.90
25	28.28	27.82	27.92	28.00	28.40	28.16	28.18	28.10	28.18	28.18	28.42	27.94
26	28.24	27.80	27.86	27.98	28.38	28.22	28.18	28.16	28.10	28.08	28.46	27.94
27	28.10	27.80	27.84	27.94	28.30	28.26	28.18	28.18	28.00	28.02	28.40	27.92
28	28.04	27.76	27.84	27.98	28.30	28.20	28.18	28.30	27.96	28.12	28.40	28.30
29	28.00	27.92	27.90	27.98	28.30	28.18	28.18	28.40	27.98	28.18	28.40	28.28
30	27.96	27.92	28.08	28.00	---	27.90	28.18	28.30	28.28	28.26	28.38	28.08
31	27.90	---	28.06	28.00	---	27.90	---	28.30	---	28.32	28.34	---
MEAN	28.25	27.86	27.82	28.09	28.11	28.04	28.28	28.23	28.06	28.21	28.30	28.08
MAX	28.56	28.08	28.08	28.34	28.74	28.30	28.62	28.68	28.30	28.40	28.48	28.30
MIN	27.90	27.50	27.42	27.94	27.58	27.72	27.90	27.90	27.86	28.02	28.12	27.90

CAL YR 1983 MEAN 28.26 MAX 29.18 MIN 27.42
WTR YR 1984 MEAN 28.11 MAX 28.74 MIN 27.42

02313200 WITHLACOOCHEE RIVER AT DUNNELLON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT							
05...	1215	28.26	220	7.4	25.0	--	--
DEC							
08...	1145	27.55	260	7.8	19.5	5.8	--
FEB							
01...	1040	28.00	255	6.1	16.5	6.3	--
APR							
03...	1430	28.14	255	6.5	21.0	6.3	--
JUN							
14...	1220	28.00	245	7.7	26.0	5.0	4.3
AUG							
28...	0824	28.40	248	7.3	24.5	4.4	10

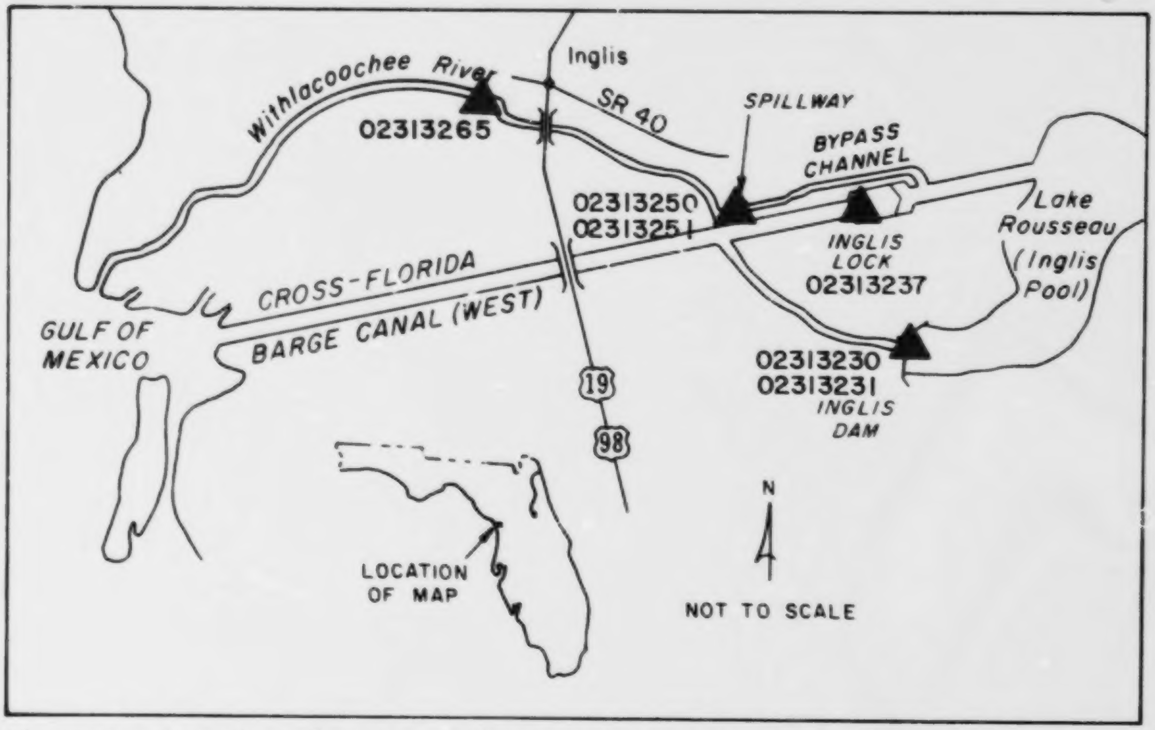

Figure 8. Location of stream gaging stations in the lower Withlacoochee River basin.

WITHLACOOCHEE RIVER BASIN

02313230 WITHLACOOCHEE RIVER AT INGLIS DAM, NEAR DUNNELLON, FL

LOCATION.--Lat 29°00'35", long 82°37'01", in SW¼ sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at upstream side of control structure of Inglis Dam, 3.5 mi southeast of Inglis, 9.8 mi west of Dunnellon, and 1¼ mi upstream from mouth.

DRAINAGE AREA.--2,020 mi^2, approximately.

PERIOD OF RECORD.--October 1969 to current year. Miscellaneous discharge measurements, 1948, 1965-69. Gage-height records since June 1964 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 20, 1971, water-stage recorder at site in forebay of powerhouse of the old Inglis Dam at same datum. July 20, 1971, to Aug. 23, 1972, water-stage recorder at site in private boat basin on south shore of Lake Rousseau. Auxiliary gage at downstream side of control structure.

REMARKS.--Records good. Records include flow of springs, approximately 70 ft^3/s just downstream from control structure; spring flow is considered to be mostly leakage from Lake Rousseau. Flow regulated by manipulation of gates in spillway. Since December 1969, entire flow diverted below station from old river channel into Cross-Florida Barge Canal, and diversions above station from Lake Rousseau, for boat lockages, through Cross-Florida Barge Canal (see station 02313237), for maintaining flow in old river channel, through Withlacoochee River Bypass Channel (see station 02313250). Records of gage height are published as elevations for Lake Rousseau (station 02313229) in the section of this report entitled LAKE ELEVATIONS.

COOPERATION.--Gate-opening record furnished by Corps of Engineers.

AVERAGE DISCHARGE.--15 years, 435 ft^3/s, 315,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,500 ft^3/s Oct. 12, 1979; maximum gage height, 28.28 ft June 19, 1982; gates closed and flow consists of leakage, about 70 ft^3/s for all or part of some days in most years; minimum gage height, 21.67 ft Oct. 11, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,180 ft^3/s Mar. 29; maximum gage height, 28.01 ft May 5; gates closed and flow consists of leakage, about 70 ft^3/s for many days; minimum gage height, 26.78 ft Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	460	612	909	1120	1040	70	460	460	701	460	828
2	1260	460	612	828	1120	1040	206	460	554	661	1010	828
3	1260	216	612	828	1120	1040	290	625	612	612	955	828
4	1260	70	612	828	1120	1040	439	1330	612	612	756	828
5	1260	306	612	966	1030	1040	932	1960	612	612	756	828
6	1030	460	612	1040	926	1040	1330	1810	612	612	756	600
7	900	460	612	1130	900	1090	1070	981	612	612	756	460
8	809	460	612	1190	900	1120	629	756	612	612	756	460
9	756	460	523	1140	812	1120	460	756	269	612	476	460
10	756	586	410	1120	710	1120	460	912	70	612	290	460
11	756	756	324	1170	638	1120	460	1040	275	612	290	460
12	756	756	290	1260	612	1120	646	1040	380	612	643	460
13	846	756	290	1260	612	1120	936	866	380	612	900	460
14	900	723	394	1260	612	1030	1040	564	380	612	587	460
15	1030	612	510	1260	612	810	1040	460	380	612	290	353
16	1330	408	540	1220	701	664	952	460	380	612	290	290
17	1240	290	540	1190	756	612	900	350	188	612	615	290
18	1000	290	540	1190	756	612	900	290	70	612	900	290
19	900	290	540	1230	936	612	629	152	70	397	900	290
20	900	413	540	1260	1040	612	555	70	70	290	631	290
21	900	540	540	1260	1040	612	612	216	70	398	460	290
22	718	540	540	1250	1350	475	687	290	70	648	460	290
23	612	540	540	1260	1620	149	756	290	70	807	555	290
24	794	540	540	1260	1620	70	756	290	208	756	612	290
25	900	540	540	1260	1620	186	678	290	290	756	794	290
26	900	540	540	1260	1420	396	612	394	290	756	900	290
27	813	540	540	1210	1260	611	522	460	290	459	854	290
28	666	540	540	1140	1180	1010	460	460	290	290	828	393
29	612	584	728	1120	1040	2180	460	684	290	290	828	642
30	612	612	978	1120	---	965	460	900	387	398	828	756
31	552	---	1040	1120	---	70	---	607	---	460	828	---
TOTAL	28288	14748	17403	35549	29183	25726	19947	20223	9853	17859	20964	14044
MEAN	913	492	561	1147	1006	830	665	652	328	576	676	468
MAX	1330	756	1040	1260	1620	2180	1330	1960	612	807	1010	828
MIN	552	70	290	828	612	70	70	70	70	290	290	290
AC-FT	56110	29250	34520	70510	57880	51030	39560	40110	19540	35420	41580	27860

CAL YR 1983	TOTAL	345921	MEAN	948	MAX	3000	MIN	70	AC-FT	686100
WTR YR 1984	TOTAL	253787	MEAN	693	MAX	2180	MIN	70	AC-FT	503400

WITHLACOOCHEE RIVER BASIN

02313231 WITHLACOOCHEE RIVER BELOW INGLIS DAM, NEAR DUNNELLON, FL

LOCATION.--Lat 29°00'35", long 82°37'01", in SW¼ sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at downstream side of control structure of Inglis Dam, 3.5 mi southeast of Inglis, 9.8 mi west of Dunnellon, and 11 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1964 to current year (gage heights only).

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 21, 1971, at downstream end of lock chamber of former Inglis Dam at same datum. June 21, 1971, to Aug. 23, 1972, near left bank 1,500 ft downstream at same datum. This is the auxiliary gage for station 02313230 located at upstream side of control structure.

REMARKS.--Stage affected by tide and manipulation of gates immediately above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.73 ft Sept. 13, 1964; minimum, 3.72 ft below NGVD, Jan. 16, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.85 ft Mar. 29; minimum, 2.17 ft below NGVD, Mar. 31.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.78	1.31	1.20	1.45	1.87	1.61	.19	1.40	1.06	2.08	1.77	1.86
2	2.85	1.26	1.46	1.45	2.05	1.91	.60	1.70	1.60	1.90	2.66	1.77
3	2.84	1.08	1.79	1.66	2.31	2.00	1.32	2.88	1.66	1.68	2.40	1.84
4	3.04	1.30	1.88	1.81	2.52	1.96	1.67	3.71	1.60	1.79	1.95	2.01
5	3.18	1.42	1.65	2.10	2.33	2.20	2.30	4.45	1.61	1.70	1.95	1.85
6	2.90	1.39	1.91	2.23	1.80	2.39	2.80	4.05	1.75	1.60	1.88	1.38
7	2.60	1.50	1.08	2.39	1.42	2.12	2.31	2.37	1.61	1.62	1.77	.89
8	2.23	1.80	1.16	2.20	1.31	1.77	1.73	1.98	1.62	1.64	1.97	.95
9	2.16	1.59	1.10	2.25	1.35	1.91	1.57	1.40	1.30	1.65	1.46	1.28
10	2.00	1.87	.96	2.77	1.55	1.88	1.29	1.71	1.05	1.78	1.20	1.68
11	2.21	2.00	1.30	1.66	1.10	1.88	.98	2.04	1.32	1.80	1.29	1.63
12	2.30	1.63	1.12	1.66	1.17	2.11	1.42	2.25	1.26	1.97	1.98	1.58
13	2.50	1.62	.70	2.10	1.25	2.32	2.23	1.95	1.35	2.06	2.39	1.58
14	2.20	1.64	1.59	2.08	1.30	2.03	2.90	1.51	1.58	1.95	1.80	1.50
15	2.32	1.86	.90	2.19	1.10	1.62	3.50	1.43	1.58	1.91	1.01	1.43
16	2.91	1.13	.53	2.34	1.43	1.62	3.20	1.14	1.45	1.98	.88	1.33
17	2.92	.71	.48	2.40	1.66	1.90	3.40	.78	1.09	2.07	1.48	.53
18	2.45	.90	.80	2.50	1.58	1.81	2.70	.87	1.08	2.31	2.15	.62
19	2.27	1.37	.86	2.38	1.99	1.78	1.80	.90	1.04	1.39	2.29	.70
20	2.37	2.20	.75	2.02	2.15	2.36	1.00	.98	.91	1.07	1.88	.90
21	2.25	1.58	.82	2.03	2.11	1.68	.90	.98	.87	1.18	1.29	.96
22	2.00	1.45	1.17	1.93	2.75	.91	1.20	.90	.84	1.60	1.04	1.00
23	2.33	1.54	1.21	2.22	2.88	.52	1.40	.92	1.12	2.00	1.44	.96
24	2.65	2.24	1.11	2.55	2.95	.49	1.50	.94	.98	1.84	1.79	1.12
25	2.38	1.38	-0.02	2.47	2.86	.97	1.40	.95	1.21	1.99	2.20	1.08
26	2.32	1.30	.30	2.40	2.55	.95	1.40	1.04	1.04	2.04	2.33	.95
27	1.91	1.66	.89	2.45	2.95	1.55	1.60	1.20	1.25	1.80	2.15	.50
28	1.61	1.88	1.75	2.18	2.92	3.04	1.00	1.35	1.31	1.53	1.98	1.33
29	1.65	1.23	1.80	2.09	1.55	5.01	.80	1.86	1.75	1.66	2.05	1.77
30	1.68	1.17	1.39	2.25	---	2.16	1.10	2.15	2.09	1.76	2.02	1.96
31	1.51	---	1.50	2.00	---	-0.09	---	1.09	---	1.70	2.00	---
MEAN	2.37	1.50	1.13	2.14	1.95	1.82	1.71	1.71	1.33	1.78	1.82	1.30
MAX	3.18	2.24	1.91	2.77	2.95	5.01	3.50	4.45	2.09	2.31	2.66	2.01
MIN	1.51	.71	-0.02	1.45	1.10	-0.09	.19	.78	.84	1.07	.88	.50

CAL YR 1983 MEAN 2.29 MAX 6.09 MIN -0.02
WTR YR 1984 MEAN 1.71 MAX 5.01 MIN -0.09

WITHLACOOCHEE RIVER BASIN

02313237 CROSS-FLORIDA BARGE CANAL AT INGLIS LOCK, NEAR INGLIS, FL

LOCATION.--Lat 29°01'30", long 82°37'00", in SW¼ sec .5, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at downstream side of Inglis Lock, 0.8 mi downstream from Lake Rousseau, and 3.2 mi east of Inglis.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Nonrecording gage.

REMARKS.--Discharge at station is a diversion of flow, for boat lockages, from Lake Rousseau and Withlacoochee River into Gulf of Mexico, and is computed using daily volume of water used for lockage.

COOPERATION.--Lockage record furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 138 ft³/s Jan. 11, 1970; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 55 ft³/s Mar. 4; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	.00	.00	.00	18	.00	21	.00	16	31	.00	18
2	16	.00	.00	.00	16	.00	18	.00	18	22	18	18
3	.00	16	25	.00	19	18	.00	.00	17	.00	.00	.00
4	.00	23	.00	.00	15	55	.00	.00	18	.00	.00	.00
5	.00	17	.00	.00	19	.00	.00	37	.00	.00	.00	.00
6	15	18	.00	18	17	.00	17	52	.00	16	.00	17
7	.00	4.8	.00	18	.00	.00	17	17	.00	33	.00	16
8	16	.00	17	19	.00	.00	18	.00	.00	16	.00	17
9	35	.00	16	.00	.00	17	16	.00	17	17	17	15
10	.00	4.7	16	.00	.00	17	.00	.00	32	.00	.00	4.8
11	.00	.00	19	.00	24	17	.00	18	16	.00	.00	.00
12	.00	17	16	.00	33	.00	18	16	.00	.00	.00	.00
13	17	.00	.00	.00	16	.00	.00	29	.00	18	.00	18
14	18	.00	.00	18	.00	.00	17	17	15	18	.00	17
15	18	.00	.00	17	.00	18	17	.00	16	17	.00	17
16	18	.00	17	.00	16	16	16	.00	17	.00	.00	16
17	29	18	17	.00	.00	23	.00	21	17	.00	.00	19
18	16	.00	17	.00	.00	16	.00	.00	15	.00	17	.00
19	29	16	19	.00	.00	17	.00	42	.00	17	25	.00
20	.00	18	.00	18	.00	.00	18	17	.00	20	17	17
21	.00	18	.00	.00	.00	.00	.00	17	16	16	.00	.00
22	18	.00	.00	18	.00	18	.00	.00	17	17	.00	38
23	18	.00	.00	18	.00	17	.00	.00	17	19	4.9	17
24	.00	.00	.00	17	.00	17	.00	.00	36	.00	16	16
25	.00	.00	.00	.00	.00	18	.00	17	17	.00	18	.00
26	.00	23	.00	17	.00	17	17	18	17	.00	18	.00
27	4.6	26	.00	.00	.00	.00	.00	.00	.00	18	16	17
28	26	4.6	.00	22	.00	.00	33	.00	.00	16	.00	17
29	26	.00	.00	.00	.00	.00	32	.00	16	31	.00	18
30	17	.00	.00	.00	---	.00	18	.00	16	.00	15	18
31	18	---	.00	17	---	.00	---	.00	---	.00	18	---
TOTAL	372.60	224.10	179.00	217.00	193.00	301.00	293.00	318.00	366.00	342.00	199.90	350.80
MEAN	12.0	7.47	5.77	7.00	6.66	9.71	9.77	10.3	12.2	11.0	6.45	11.7
MAX	35	26	25	22	33	55	33	52	36	33	25	38
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	739	445	355	430	383	597	581	631	726	678	397	696

CAL YR 1983 TOTAL 3996.60 MEAN 10.9 MAX 51 MIN .00 AC-FT 7930
WTR YR 1984 TOTAL 3356.40 MEAN 9.17 MAX 55 MIN .00 AC-FT 6660

AVAILABLE

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02313250 WITHLACOOCHEE RIVER BYPASS CHANNEL NEAR INGLIS, FL

LOCATION.--Lat 29°01'15", long 82°38'17", in NE¼ sec.12, T.17 S., R.16 E., Levy County, Hydrologic Unit 03100208, on right bank 90 ft upstream from control structure, 0.1 mi upstream from mouth, and 2.0 mi east of Inglis.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to July 16, 1971, water-stage recorder for Withlacoochee River at Inglis Dam, near Dunnellon (station 02313230) used as base gage for this station.

REMARKS.--Records good. Flow regulated by manipulation of gates in spillway; channel completed and flow through spillway began December 17, 1969. Discharge at station is the diversion from Lake Rousseau to maintain flow in the old river channel.

COOPERATION.--Gate-opening record furnished by Corps of Engineers.

AVERAGE DISCHARGE.--14 years, 1,140 ft^3/s, 825,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,800 ft^3/s June 19, 1982; maximum gage height, 28.31 ft May 19, 1977; minimum daily discharge, 53 ft^3/s Oct. 11, 1972; minimum gage height, 21.35 ft Oct. 8, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,760 ft^3/s Feb. 22; maximum gage height, 27.93 ft May 5; minimum daily discharge, 260 ft^3/s Mar. 29; minimum gage height, 26.20 ft Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	1480	1470	1440	1370	1500	1570	1550	1590	1660	1690	1530
2	1420	1470	1460	1460	1370	1510	1600	1530	1590	1600	1660	1520
3	1400	1470	1450	1500	1360	1520	1620	1090	1580	1570	1560	1480
4	1390	1510	1410	1520	1340	1520	1710	440	1580	1540	1540	1480
5	1380	1550	1380	1530	1320	1510	1720	1280	1580	1530	1520	1460
6	1370	1570	1400	1530	1310	1490	1590	1460	1570	1560	1520	1470
7	1440	1560	1390	1500	1310	1500	1480	1450	1550	1570	1500	1490
8	1460	1580	1360	1470	1300	1500	1460	1540	1520	1560	1500	1500
9	1470	1580	1320	1430	1300	1470	1500	1610	1530	1580	1500	1500
10	1480	1560	1320	1410	1320	1440	1550	1640	1540	1570	1550	1510
11	1490	1500	1330	1410	1350	1410	1610	1610	1550	1570	[illegible]	1490
12	1510	1430	1380	1460	1380	1380	1660	1590	1550	1560	1590	1370
13	1510	1370	1430	1440	1400	1340	1640	1550	1560	1550	1520	1480
14	1530	1330	1450	1420	1430	1310	1600	1550	1570	1550	1490	1570
15	1550	1310	[illegible]	1390	1480	1320	1570	1570	1590	1550	1560	1530
16	1540	1320	1490	1380	1540	1350	1540	1580	1560	1530	1610	1380
17	1500	1360	1500	1380	1600	1380	1520	1580	1560	1520	1630	1280
18	1490	1380	1500	1380	1670	1410	1500	1570	1570	1500	1550	1280
19	1500	1410	1500	1420	1730	1410	1500	1570	1570	1510	1510	1280
20	1490	1430	1510	[illegible]	1740	1420	1570	1590	1570	1550	1500	1360
21	1480	1460	1500	1410	1750	1430	1580	1600	1420	1590	1550	1400
22	1480	1470	1500	1400	1760	1450	1590	1600	1280	1610	1570	1400
23	1530	1470	1490	1390	1660	1500	1570	1600	1520	1570	1590	1400
24	1560	1460	1480	1370	1570	1590	1550	1600	1660	1550	1590	1340
25	1530	1470	1480	1370	1490	1630	1550	1600	1640	1550	1590	1310
26	1500	1470	1480	1360	1430	1640	1560	1610	1620	1500	1560	1310
27	1480	1450	1480	1330	1420	1630	1570	1630	1580	1480	1550	1250
28	1470	1460	1460	1350	1400	1350	1580	1660	1550	1400	1550	1480
29	1480	1490	1450	1360	1440	260	1580	1660	1420	1380	1550	1610
30	1480	1480	1460	1360	---	960	1570	1590	1550	1560	1550	1530
31	1470	---	1440	1370	---	1510	---	1560	---	1660	1530	---
TOTAL	45810	43850	44750	43960	42540	43640	47210	47060	46520	47980	48270	42990
MEAN	1478	1462	1444	1418	1467	1408	1574	1518	1551	1548	1557	1433
MAX	1560	1580	1510	1530	1760	1640	1720	1660	1660	1660	1690	1610
MIN	1370	1310	1320	1330	1300	260	1460	440	1280	1380	1490	1250
AC-FT	90860	86980	88760	87190	84380	86560	93640	93340	92270	95170	95740	85270

CAL YR 1983 TOTAL 496377 MEAN 1360 MAX 1610 MIN 410 AC-FT 984600
WTR YR 1984 TOTAL 544580 MEAN 1488 MAX 1760 MIN 260 AC-FT 1080000

WITHLACOOCHEE RIVER BASIN

02313265 WITHLACOOCHEE RIVER AT CRACKERTOWN, FL

LOCATION.--Lat 29°01'49", long 82°40'41", in NW¼ sec.3, T.17 S., R.16 E., Levy County, Hydrologic Unit 03100208, near right bank at end of Florida Power Corporation powerplant bulkhead and pump outlet, 0.5 mi west of Inglis, 0.7 mi southeast of Crackertown, and 6.6 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1967 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Stage affected by tide and by manipulation of gates in control structure upstream. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.31 ft June 19, 1972; minimum, 3.96 ft below NGVD, Dec. 17, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.25 ft Mar. 29; minimum, 2.57 ft below NGVD, Mar. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.78	2.67	2.68	.67	2.17	1.25	2.36	3.28	2.97	4.10	3.79	3.23
2	3.26	2.61	2.52	1.69	2.28	2.38	2.93	3.88	3.50	3.64	3.24	2.86
3	3.70	2.96	3.37	2.49	2.92	2.70	3.57	4.45	3.18	3.17	2.83	2.81
4	4.00	3.50	4.05	2.93	3.37	2.42	4.53	3.86	2.99	3.04	2.92	2.84
5	4.30	3.94	3.48	3.15	2.74	3.06	3.10	3.36	2.99	2.84	2.77	2.90
6	3.90	3.17	3.69	3.05	2.77	3.23	2.56	3.04	2.81	2.93	2.72	2.88
7	3.60	3.30	2.35	3.05	1.51	2.66	2.34	2.99	2.79	2.98	2.63	2.39
8	3.70	4.45	2.28	2.10	1.44	1.73	2.83	2.91	2.97	2.99	2.85	2.11
9	3.40	3.19	1.96	2.18	2.05	1.93	3.02	1.81	3.43	3.20	2.97	3.30
10	3.10	3.43	2.08	3.51	2.35	1.69	2.61	2.22	3.65	3.42	3.17	3.70
11	3.30	2.84	3.57	2.12	2.12	1.53	2.57	2.73	3.77	3.35	3.34	3.60
12	3.30	3.40	2.88	1.58	2.61	2.70	2.99	3.34	3.76	3.66	3.44	3.59
13	3.00	1.91	2.03	1.53	3.06	2.65	3.46	3.35	3.94	3.85	3.59	3.33
14	2.70	2.48	3.12	1.79	2.24	2.16	3.50	3.28	3.96	3.79	3.22	3.17
15	2.90	2.70	2.04	2.53	2.86	2.65	3.70	3.14	4.03	3.70	2.94	3.43
16	3.20	1.99	.56	3.22	3.09	3.18	3.62	3.15	3.74	3.63	2.84	3.22
17	3.40	1.73	1.95	3.34	3.67	3.61	3.51	3.03	3.26	3.59	2.67	2.51
18	3.20	2.47	1.82	3.57	3.41	3.70	3.11	3.14	3.17	3.48	2.92	2.76
19	3.70	2.94	2.53	4.22	3.29	3.72	3.17	3.16	2.89	2.27	3.17	1.94
20	3.40	4.54	2.47	1.65	3.01	4.88	2.99	3.07	2.43	2.19	3.39	3.00
21	3.10	3.71	3.22	2.03	3.21	2.99	2.55	2.64	2.28	2.46	2.47	2.70
22	3.00	3.59	3.22	1.13	3.56	2.66	2.38	2.14	2.74	2.77	2.29	3.23
23	3.50	3.46	3.31	3.00	2.48	2.23	2.69	2.07	2.74	2.80	2.59	3.46
24	3.80	3.90	3.29	3.00	2.28	2.27	1.84	2.43	2.70	2.78	3.56	3.45
25	3.28	3.41	.28	3.20	1.85	2.43	2.00	2.50	3.23	3.48	3.76	3.36
26	2.75	2.18	1.14	2.79	1.82	1.98	2.53	2.57	2.99	3.70	3.63	2.84
27	2.32	2.81	3.22	2.65	4.15	2.27	3.08	2.94	3.25	3.94	3.97	2.53
28	2.18	2.95	2.78	2.47	2.46	3.41	3.10	3.26	3.68	4.11	3.80	2.43
29	2.34	2.06	2.13	1.56	1.85	5.25	3.01	3.26	4.14	4.22	3.60	3.06
30	2.60	2.07	.23	2.35	---	1.74	3.39	2.95	4.36	4.18	3.26	2.98
31	2.87	---	-0.16	2.98	---	2.07	---	2.30	---	3.88	3.43	---
MEAN	3.21	3.01	2.39	2.50	2.64	[illegible]68	2.97	2.98	3.28	3.36	3.15	2.99
MAX	4.30	4.54	4.05	4.22	4.15	5.25	4.53	4.45	4.36	4.22	3.97	3.70
MIN	2.18	1.73	-0.16	.67	1.44	1.25	1.84	1.81	2.28	2.19	2.29	1.94

CAL YR 1983 MEAN 2.92 MAX 5.56 MIN -0.16
WTR YR 1984 MEAN 2.93 MAX 5.25 MIN -0.16

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02313265 WITHLACOOCHEE RIVER AT CRACKERTOWN, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.70	-0.70	-0.98	-2.09	-1.78	-1.69	-0.99	-1.03	-1.27	-0.84	-0.49	-0.48
2	-0.80	-0.68	-1.14	-1.87	-1.74	-1.24	-0.85	-0.55	.27	-0.95	.04	-0.34
3	-0.90	-0.93	-0.96	-1.47	-1.21	-1.11	-0.73	-0.17	-0.98	-1.02	-0.19	-0.16
4	-1.00	-0.78	-0.69	-1.33	-0.83	-1.09	.22	1.29	-1.00	-0.79	-0.12	-0.08
5	-0.70	-0.67	-1.13	-1.18	-1.25	-0.59	.27	-1.49	-0.95	-0.46	-0.35	-0.60
6	-0.50	-0.99	-0.64	-0.94	-1.48	.28	-0.73	-0.82	-0.74	-0.35	-0.60	-1.02
7	-0.70	-0.87	-1.70	-0.82	-1.47	-0.39	-0.79	-0.97	-0.46	-0.56	-0.87	-1.00
8	-1.10	-0.44	-1.23	-1.11	-1.49	-1.43	-0.98	-0.82	-0.34	-0.76	-0.82	-0.94
9	-1.20	-0.49	-1.37	-0.98	-1.47	-0.93	-0.59	-0.89	-0.49	-0.83	-0.84	-0.41
10	-1.20	-0.09	-0.93	-0.09	-0.97	-1.38	-0.56	-1.00	-0.64	-1.01	-0.70	-0.29
11	-0.60	-0.20	-0.15	-0.05	-1.16	-1.24	-1.12	-0.91	-0.85	-0.96	-0.64	-0.24
12	.00	-0.37	.13	-0.76	-1.22	-1.39	-1.06	-0.74	-1.02	-0.65	-0.68	-0.35
13	-0.20	-0.16	-0.31	-1.07	-1.20	-1.01	-0.60	-1.11	-1.01	-0.72	-0.57	-0.39
14	-0.40	-0.03	.09	-1.37	-1.16	-1.58	-0.40	-1.20	-0.64	-0.79	-0.13	-0.49
15	-0.10	.69	-0.44	-1.54	-1.60	-1.76	-0.32	-1.31	.60	.30	-0.55	-0.23
16	.20	-0.13	-1.27	-1.47	-1.49	-1.36	-0.76	-1.56	-0.76	-0.63	-0.48	-0.56
17	-0.10	-0.90	-1.20	-1.52	-1.40	-1.10	-0.50	-0.56	-0.74	-0.36	-0.19	-1.16
18	-0.30	-0.93	-1.45	-1.30	-1.24	-0.97	-0.04	-1.40	-0.66	.72	.03	-0.77
19	-0.40	-0.88	-1.62	-1.28	-1.02	-0.87	-0.90	-1.19	-0.46	.06	.24	-0.59
20	-0.80	-0.14	-1.67	-1.94	-0.73	.17	-0.96	-0.82	-0.33	-0.03	.22	-0.52
21	-1.10	-1.13	-1.75	-2.08	-0.74	-0.20	-0.80	-0.44	-0.14	.20	-0.52	-0.82
22	-1.30	-1.15	-1.40	-2.09	-0.89	-0.91	-0.48	-0.37	-0.39	-0.01	-0.97	-0.89
23	-1.40	-0.96	-1.34	-1.37	-0.32	-1.02	.12	-0.18	.01	-0.34	-0.88	-0.80
24	-1.20	-0.37	-0.95	-0.23	-0.66	-0.90	.25	.00	-0.39	-0.53	-0.84	-0.89
25	-1.08	-1.35	-1.89	-0.26	-0.40	-0.67	-0.52	-0.10	-0.43	-0.75	-1.00	-0.68
26	-0.99	-0.69	-1.23	-0.84	-1.37	-0.22	-0.63	-0.70	-0.91	-0.95	-1.17	-0.93
27	-1.38	-0.12	-0.55	-0.42	-0.24	-0.04	-0.31	-0.72	-0.89	-1.00	-0.80	-1.59
28	-0.91	.02	-0.24	-1.05	1.00	.76	-0.49	-0.75	-1.00	-1.15	-0.38	-0.97
29	-0.90	-0.44	-0.36	-1.04	-0.95	-0.10	-0.78	-1.05	-1.05	-1.03	-0.69	-0.69
30	-0.85	-0.63	-1.81	-1.19	---	-2.57	-0.69	-1.40	-0.77	.44	-0.53	-0.56
31	-0.78	---	-2.24	-1.81	---	-1.34	---	-1.59	---	-0.66	-0.54	---
MEAN	-0.75	-0.55	-1.05	-1.18	-1.05	-0.90	-0.56	-0.79	-0.61	-0.53	-0.52	-0.65
MAX	.20	.69	.13	-0.05	1.00	.76	.27	1.29	.60	.72	.24	-0.08
MIN	-1.40	-1.35	-2.24	-2.09	-1.78	-2.57	-1.12	-1.59	-1.27	-1.15	-1.17	-1.59

CAL YR 1983 MEAN -0.85 MAX 1.70 MIN -2.86
WTR YR 1984 MEAN -0.75 MAX 1.29 MIN -2.57

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in a table of annual maximum stage and discharge. Discharge measurements made at miscellaneous sites for both low flows and high flows are given in a second table.

Low-flow partial-record stations

About 400 discharge measurements made at low-flow partial-record and miscellaneous discharge measurement sites during 1980 and 1981 are published in Water Resources Investigation 84-4299, "Low-Flow Frequency Analyses for Streams in West-Central Florida."

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1984

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual Maximum Date	Annual Maximum Gage height (feet)	Annual Maximum Discharge (ft^3/s)
		Oklawaha River Basin					
02240920	Fairfield Sink drain at Fairfield, FL	Lat 29°21'58", long 82°15'17", in NW¼ sec.18, T.13 S., R.21 E., Marion County, Hydrologic Unit 03080102, on right bank of drainage channel near abandoned brick school, 50 ft downstream from culvert on State Highway 316, approximately 450 ft upstream from sink, and 0.2 mi west of intersection of State Highways 316 and 225 at Fairfield. Datum of gage is 78.19 ft National Geodetic Vertical Datum of 1929.	1.70	1966-84	12-29-83	20.57	9.1
		Charlotte Harbor and coastal area					
02293390	North Prong Alligator Creek near Punta Gorda, FL	Lat 26°53'41", long 81°58'31", in SE¼ sec.23, T.41 S., R.23 E., Charlotte County, Hydrologic Unit 03100103, at bridge on county road, 0.8 mi upstream from mouth, and 4.4 mi southeast of Punta Gorda. Datum of gage is 4.21 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).	8.46	1970-84	7-25-84	11.00	260
		Peace River Basin					
02295630	Thompson Branch near Wauchula, FL	Lat 27°31'47", long 81°49'03", in SE¼ sec.9, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, at culvert on County Road 35A, 1.3 mi south of intersection State Highway 650 and U. S. Highway 17 in Wauchula, and 2.1 mi upstream from mouth.	8.22	1983-84	8-06-84	8.45	[1]
02296260	Charlie Creek near Crewsville, FL	Lat 27°27'33", long 81°40'43", in SE¼ sec.2, T.35 S., R.26 E., Hardee County, Hydrologic Unit 03100101, at bridge on State Highway 66, 7.1 mi west of Crewsville, and 14.5 mi upstream from mouth.	142	1981-84	7-21-84	16.62	582

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1984

Station number	Station name	Location	Drainage area (mi²)	Period of record	Annual Maximum Date	Annual Maximum Gage height (feet)	Annual Maximum Discharge (ft³/s)
Peace River Basin - Continued							
02296955	Joshua Slough near Arcadia, FL	Lat 27°12'32", long 81°48'16", in NW¼ sec.3, T.38 S., R.25 E., De Soto County, Hydrologic Unit 03100101, at bridge on State Highway 70, 1.8 mi above mouth, and 3.4 mi east of Arcadia.	8.2	1983-84	3-13-84	7.06	†
02297088	Hawthorn Creek near Nocatee, FL	Lat 27°09'02", long 81°51'31", in NW¼ sec.30, T.37 S., R.25 E., De Soto County, Hydrologic Unit 03100101, at bridge on County Road 760-A, 1.2 mi above mouth, and 1.8 mi east of Nocatee.	39	1983-84	3-13-84	14.20	1,900
02297251	Horse Creek near Limestone, FL	Lat 27°21'58", long 81°58'25", in NW¼ sec.12, T.36 S., R.23 E., Hardee County, Hydrologic Unit 03100101, at bridge on State Highway 665, 4.5 mi west of Limestone, and 30.5 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).	130	1981-84	12-30-83	53.42	300
02297320	Horse Creek near Nocatee, FL	Lat 27°09'31", long 81°57'58", in NE¼ sec.24, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, at bridge on State Highway 761, 5.1 mi west of Nocatee, and 6.6 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).	231	1981-84	3-13-84	12.82	1,210
Manatee River Basin							
02300010	Mill Creek near Lorraine, FL	Lat 27°28'57", long 82°24'25", in NE¼ sec.33, T.35 S., R.19 E., Manatee County, Hydrologic Unit 03100202, at downstream side of culvert on State Highway 64, 3.[illegible] mi north of Lorraine, and 3.7 mi upstream from mouth.	6.9	1983-84	11-08-83	6.35	†
02300016	Sand Prairie Drain near Parrish, FL	Lat 27°35'34", long 82°22'52", in SW¼ sec.23, T.33 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on downstream wingwall of culvert on State Highway 62, 0.3 mi upstream from mouth, and 3.8 mi east of Parrish.	4.4	1983-84	12-16-83	11.42	†
02300018	Gamble Creek near Parrish, FL	Lat 27°33'11", long 82°23'23", in NE¼ sec.3, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, at downstream side of bridge on Golf Course Road, 0.2 mi downstream from Frye Canal, 3.0 mi southeast of Parrish, and 5.7 mi upstream from mouth.	50.6	1983-84	12-16-83	9.53	†
Little Manatee River Basin							
02300200	South Fork Little Manatee River near Duette, FL	Lat 27°35'25", long 82°10'57", in SW¼ sec.23, T.33 S., R.21 E., Manatee County, Hydrologic Unit 03100203, at bridge on county road, 0.5 mi upstream from Graveyard Creek, 3.7 mi west of Duette, and 12 mi upstream from mouth. Datum of gage is 89.25 ft National Geodetic Vertical Datum of 1929.	a9.4	1960-84	12-30-83	3.04	167

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1984

Station number	Station name	Location	Drainage area (mi²)	Period of record	Annual Maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Little Manatee River Basin - Continued					
02300430	Dug Creek near Wimauma, FL	Lat 27°14'25", long 82°20'17", in NE¼ sec.19, T.32 S., R.20 E., Hillsborough County, Hydrologic Unit 03100203, at bridge on Bishop Road, 0.3 mi east of U. S. Highway 301, 2.0 mi upstream from mouth, and 2.7 mi southwest of Wimauma. Prior to October 1983, at datum 26.52 ft lower.	a3.6	1981-84	12-30-83	36.20	125
		Alafia River Basin					
02300701	Cowley Run near Riverview, FL	Lat 27°48'09", long 82°20'13", in NE¼ sec.7, T.31 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, 7 ft upstream from culvert at Cowley Road, 0.2 mi above mouth, 0.2 mi west of U.S. Highway 301, and 4.5 mi south of Riverview.	0.40	1984	5-25-84	4.83	†
		Hillsborough River Basin					
02301980	Zephyr Creek near Zephyrhills, FL	Lat 28°14'11", long 82°12'48", in SE¼ sec.9, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, at downstream end of culvert, and auxiliary gage 7 ft upstream from culvert, on Dean Dairy Road, 0.5 mi north of State Highway 54, 2 mi west of Zephyrhills, and 5.7 mi above mouth.	1.93	1984	12-30-83	7.61	63
02302247	Griffin Run near Lakeland, FL	Lat 28°04'36", long 81°59'35", in NE¼ sec.3, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100205, at downstream side of culvert, on County Road S-35A (Kathleen Road), 0.5 mi northwest of Interstate 4, 1.3 mi above mouth, and 3.0 mi northwest of Lakeland.	0.66	1984	7-08-84	7.15	†
02302260	Itchepackesassa Creek near Knights, FL	Lat 28°04'49", long 82°04'24", in NE¼ sec.2, T.28 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, at left bank on State Highway 582, 3.9 mi east of Knights, and 6.0 mi upstream from mouth.	a34	1982-84	12-30-83	12.07	310
02303358	Cypress Creek near Darby, FL	Lat 28°22'32" long 82°19'47", in NW¼ sec.29, T.24 S., R.20 E., Pasco County, Hydrologic Unit 03100205, at bridge on State Highway 578, 2.0 mi northeast of Darby, 2.6 mi upstream from Bee Tree branch, and 4.3 mi northwest of San Antonio. Datum of gage is 80 ft National Geodetic Vertical Datum of 1929. Prior to 5-15-70, at datum 8.60 ft higher.	7.11	1969-84	12-30-83	14.69	350
		Tampa Bay and coastal areas					
02306289	Lake Magdalene Outlet near Lutz, FL	Lat 28°04'26", long 82°30'01", in SE¼ sec.4, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on right bank of canal, 20 ft downstream from stop log control structure, 2 ft upstream from V-notch weir, 0.1 mi upstream from inlet to Bay Lake, and 5.8 mi southwest of Lutz.	2.2	1970-81* 1982-84	1-19-84	5.10	21

See footnotes at end of the table.

Annual maximum discharge at crest-stage partial-record stations during water year 1984

Station number	Station name	Location	Drainage area (mi²)	Period of record	Annual Maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
Tampa Bay and coastal areas - Continued							
02307731	Allen Creek near Largo, FL	Lat 27°56'30", long 82°45'00", in SE¼ sec.24, T.29 S., R.15 E., Pinellas County, Hydrologic Unit 03100206, 3.1 mi northeast of Largo, and 3.0 mi upstream from mouth. Datum of gage is 2.00 ft below National Geodetic Vertical Datum of 1929.	1.9	1947-51* 1971-84	5-22-84 8-17-84	7.70	154

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† Not determined
* Operated as a continuous-record gaging station
a Approximately

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Peace River Basin				
Hickory Creek	Peace River	Lat 27°28'54", long 81°52'50", in NE¼ sec.35, T.34 S., R.24 E., Hardee County, Hydrologic Unit 03100101, at center of downstream side of culvert on State Highway 64, 2.4 mi east of Ona, and 4.5 mi upstream from mouth.	3.75	1982-83	3-14-84 4-19-84 8-17-84 9-06-84	8.1 0.42 5.6 14
Peace River	Charlotte Harbor	Lat 27°05'17", long 81°59'39", in NE¼ sec.15, T.39 S., R.23 E., DeSoto County, Hydrologic Unit 03100101, at bridge on State Highway 761, 2.5 mi west of Ft. Ogden.	1,790	1974 1982 1963	7-10-84 7-10-84 7-10-84 7-10-84 7-10-84 7-11-84 7-11-84 7-11-84 7-11-84 7-11-84	1,460 2,080 2,060 1,990 1,770 466 764 1,030 1,200 517
Peace River	Charlotte Harbor	Lat 27°00'34", long 81°59'01", in NE¼ sec.11, T.40 S., R.23 E., Charlotte County, Hydrologic Unit 03100101, at Mary Point, 4.9 mi upstream from Interstate 75, and 7.3 mi north of Punta Gorda.	-		7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-13-84	-5,060 2,330 1,120 -6,900 -4,440 7,960 5,800 1,280
Hunter Creek	Peace River	Lat 27°00'29", long 81°58'43", in NE¼ sec.11, T.40 S., R.23 E., Charlotte County, Hydrologic Unit 03100101, 1.0 mi upstream from confluence with Peace River, 4.9 mi upstream from Interstate 75, and 7.3 mi north of Punta Gorda.	-		7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-12-84 7-12-84	-1,700 -641 832 -2,430 -2,310 2,670 2,550 1,580
		Myakka River Basin				
Deer Prairie Slough	Myakka River	Lat 27°10'33", long 82°12'42", in NE¼ sec.16, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, attached to upstream side of wood bridge, 1.35 mi south of State Highway 72, 7.2 mi upstream from mouth, and 12.35 mi south of Myakka City.	†	1983	10-05-83 12-12-83 2-14-84 4-06-84 8-07-84	18 18 1.5 7.4 11
Mud Lake Slough	Big Slough Canal	Lat 27°11'34", long 82°09'22", in NE¼ sec.12, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, near left bank on downstream side of bridge on State Highway 72, 0.6 mi upstream from mouth, and 11 mi south of Myakka City.	17.0	1983	10-04-83 12-08-83 2-14-84 4-05-84 6-04-84 8-07-84	15 2.8 1.6 6.5 0.05 14
		Coastal area between Myakka River and Manatee River				
Forked Creek	Gulf of Mexico	Lat 26°53'08", long 82°00'22", in SW¼ sec.1, T.40 S., R.19 E., Sarasota County, Hydrologic Unit 03100201, near left bank 40 ft downstream of culverts, 0.9 mi east of State Highway 775, 2.0 mi upstream from mouth, and 3.7 mi northwest of Englewood.	†	1983	10-03-83 12-14-83 2-16-84 8-09-84	0.42 11 0.16 2.5

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Little Manatee River Basin				
Little Manatee River	Manatee River	Lat 27°41'56", long 82°07'15", in NE¼ sec.17, T.32 S., R.22 E., Hillsborough County, Hydrologic Unit 03100203, near center of span on downstream side of bridge on Taylor-Gill Road, 1.6 mi east of Fort Lonesome, and 36.8 mi upstream from mouth.	6.1	1981-83 (Discontinued)	3-16-84 4-19-84 6-21-84 8-16-84	4.9 5.2 0.46 0.48
		Hillsborough River Basin				
Campbell Branch	Flint Creek	Lat 28°03'09", long 82°14'58", in NW¼ sec.18, T.28 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, near center span on downstream side of bridge on McIntosh Road, 0.38 mi north of Thonotosassa Road, 1.6 mi upstream from mouth, and 3.4 mi east of Thonotosassa.	5.9	1981-83 (Discontinued)	3-13-84 4-25-84 6-18-84	5.5 1.2 9.1
T. Gallagher Ditch	Baker Creek Tributary Canal	Lat 28°00'24", long 82°14'42", in NE¼ sec.31, T.28 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, on downstream side of culverts at intersection McIntosh and T. Gallagher Roads, 1.0 mi upstream from Baker Creek Tributary canal, and 2.2 mi northeast of Dover.	0.47	1981-83 (Discontinued)	3-13-84 6-18-84 8-14-84	0.75 2.5 0.59
		Tampa Bay and Coastal areas				
Brooker Creek	Lake Tarpon	Lat 28°07'43", long 82°34'14", in NE¼ sec.23, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on left downstream wingwall of twin box culverts on State Highway 685A (Van Dyke Road), 0.28 mi east of State Highway 587, and 3.4 mi north of Citrus Park.	5.01	1981-83	1-11-84	16
		Coastal area from Tampa Bay to Withlacoochee River				
Hollin Creek	Anclote River	Lat 28°09'44", long 82°42'38", in SW¼ sec.4, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 10 ft upstream from twin box culverts, 700 ft northeast at County Road 77 on abandoned railroad grade, 0.8 mi upstream from mouth, and 3.0 mi northeast of Tarpon Springs.	†	1981-83	1-11-84 2-13-84 3-21-84 6-19-84	17 16 3.2 0.82
Chassahowitzka River	Gulf of Mexico	Lat 28°42'54", long 82°34'38", in SW¼ sec.26, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on left bank just downstream from springs, 0.5 mi upstream from Baird Creek, 4.9 mi upstream from mouth, and 5.1 mi southeast of Homosassa.	†	1931-33 1936,46 1956-61 1963-83	5-22-84	134
Homosassa Springs	Homosassa River	Lat 28°47'58", long 82°35'20", in NE¼ sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, at foot bridge on nature trail to Homosassa Springs, 0.8 mi west of town of Homosassa Springs, and 2.1 mi northeast of Homosassa.	†	1931-33 1936,46 1956,61 1963-83	6-05-84 9-18-84	188 190

See footnotes at end of the table.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1984

Coastal area from Tampa Bay to Withlacoochee River - Continued

Southeast Fork Homosassa Springs	Homosassa River	Lat 28°47'51", long 82°35'23", in NE¼ sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, at bridge on county road, 1.0 mi southwest of town of Homosassa Springs, and 2.0 mi northeast of Homosassa.	†	1932-33 1936,46 1956 1963-83	6-05-84 9-18-84	55 52

† Not Determined

AVAILABLE

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
02297105 - PEACE RIVER AT NOCATEE, FLA (LAT 27 09 43 LONG 081 54 06)										
JUL , 1984										
11...	1545	--	--	--	--	278	--	--	29.0	9.2
02297330 - PEACE RIVER AT FT OGDEN,FLA (LAT 27 05 17 LONG 081 59 39)										
JAN , 1984										
19...	1150	--	--	--	--	282	--	6.8	--	--
JUL										
10...	1320	--	--	--	--	191	6.3	--	29.0	7.1
10...	1755	--	--	--	--	--	--	--	29.0	6.3
10...	2215	--	--	--	--	--	--	--	28.5	6.5
11...	0520	--	--	--	--	--	--	--	28.5	5.6
11...	0915	--	--	--	--	--	--	--	27.5	6.1
11...	1440	--	--	--	--	209	--	--	29.0	7.5
12...	0535	--	--	--	--	--	--	--	28.5	5.3
02299684 - FORKED CREEK NEAR ENGLEWOOD, FL (LAT 27 00 35 LONG 082 19 05)										
OCT , 1983										
03...	1100	--	.84	--	.42	488	--	--	25.0	--
DEC										
14...	1025	--	1.50	--	11	250	6.9	--	--	--
FEB , 1984										
16...	1104	--	.57	--	.16	1010	--	--	18.0	--
APR										
03...	1025	--	.60	--	--	660	--	--	21.0	--
AUG										
09...	0947	--	1.26	--	2.5	320	6.8	--	29.0	--
02300430 - DUG CREEK NEAR WIMAUMA, FL (LAT 27 41 25 LONG 082 20 17)										
OCT , 1983										
14...	1125	--	32.33	--	--	250	--	--	24.0	5.7
NOV										
08...	1020	--	32.50	--	--	419	5.5	--	20.0	7.8
DEC										
06...	0945	--	32.22	--	--	365	6.8	--	22.0	7.5
JAN , 1984										
12...	1415	--	32.43	--	--	282	6.7	--	15.0	4.9
FEB										
06...	1500	--	32.19	--	--	268	5.7	--	15.0	7.1
29...	1226	--	32.67	--	--	400	7.8	--	13.0	9.4
APR										
05...	1100	--	32.02	--	--	455	7.2	--	19.5	8.2
MAY										
15...	1400	--	32.05	--	--	705	7.8	--	26.0	8.3
31...	1510	--	31.89	--	--	630	8.0	--	23.5	7.3
JUN										
28...	1000	--	31.92	--	--	418	7.0	--	24.0	6.3
AUG										
20...	1145	--	32.70	--	--	408	7.0	--	25.0	6.5
SEP										
05...	1545	--	32.61	--	--	550	6.5	--	25.0	6.0

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
02297105 - PEACE RIVER AT NOCATEE, FLA (LAT 27 09 43 LONG 081 54 06)										
JUL , 1984										
11...	3.6	23	9.0	.010	.26	.010	2.2	1.30	.790	--
02297330 - PEACE RIVER AT FT OGDEN,FLA (LAT 27 05 17 LONG 081 59 39)										
JAN , 1984										
19...	--	25	--	.020	.67	.030	.89	.970	.830	--
JUL										
10...	2.0	16	6.2	.010	.26	.020	1.5	.770	.570	--
10...	--	16	6.2	.010	.22	.030	1.4	.760	.580	--
10...	--	32	6.8	.010	.22	.040	1.5	.880	.640	--
11...	2.2	19	6.8	.010	.22	.040	1.6	.890	.670	--
11...	--	23	6.8	.010	.20	.030	1.6	.880	.650	--
11...	2.6	19	6.8	.010	.21	.030	1.5	.870	.650	--
12...	--	22	7.7	.010	.24	.050	1.7	1.00	.740	--

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
02303200 - PEMBERTON CREEK NR DOVER, FLA. (LAT 28 01 34 LONG 082 14 12)										
OCT , 1983										
19...	1107	--	-1.14	--	--	445	7.3	--	24.0	6.6
NOV										
03...	0830	--	--	--	--	560	7.8	--	21.5	7.8
JAN , 1984										
13...	1000	--	--	--	--	287	7.1	--	13.0	9.1
FEB										
28...	0905	--	--	--	--	213	7.2	--	17.5	7.3
MAY										
01...	0855	--	--	--	--	504	7.8	--	24.5	6.8
22...	0815	--	--	--	--	915	6.4	--	25.0	6.6
JUN										
28...	0815	--	--	--	--	500	7.8	--	26.5	6.7
AUG										
28...	0730	--	--	--	--	220	7.2	--	24.5	6.6

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
02303200 - PEMBERTON CREEK NR DOVER, FLA. (LAT 28 01 34 LONG 082 14 12)										
OCT , 1983										
19...	--	--	--	--	--	--	--	--	--	20
NOV										
03...	--	--	--	.020	2.2	.040	.98	.720	.590	--
JAN , 1984										
13...	--	--	--	.740	2.3	.120	.63	.830	2.80	--
FEB										
28...	--	--	--	.120	2.4	2.20	3.1	1.50	.700	--
MAY										
01...	--	--	--	.010	1.4	.100	1.1	.390	.380	--
22...	--	--	--	--	--	--	--	--	--	19
JUN										
28...	--	--	--	.020	.86	.040	.95	.440	.370	--
AUG										
28...	--	--	--	.040	.88	.080	1.2	.620	.580	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00 03)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
02297733 - MOSSY GULLY TRIB AT ST HWY 70 NR ARCADIA, FLA. (LAT 27 12 31 LONG 081 40 41)												
MAY , 1984												
23...	0930	11.30	7.1	542	530	6.8	6.9	24.5	30	6.8	4.9	52
02297875 - COW SLOUGH NR ARCADIA, FLA. (LAT 27 12 32 LONG 081 34 33)												
MAY , 1984												
22...	1330	.38	1.7	588	580	8.3	7.2	31.0	30	4.0	8.1	49
02301770 - TAMPA BYPASS CANAL ABOVE S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 15)												
FEB , 1984												
28...	1345	21.40	--	190	--	7.5	--	15.0	--	--	8.2	--
MAY												
03...	1235	22.41	--	262	--	7.1	--	27.0	--	--	7.0	--
31...	0930	21.89	--	307	313	7.2	7.4	26.0	30	1.0	4.6	52
AUG												
14...	0930	21.55	--	165	--	6.0	--	27.0	--	--	4.1	--
SEP												
13...	0949	22.25	--	229	233	6.4	7.5	26.0	120	1.0	2.8	--
02307295 - ISLAND FORD LAKE NR ODESSA, FLA. (LAT 28 09 01 LONG 082 35 41)												
APR , 1984												
26...	1215	--	--	99	101	--	6.1	--	30	--	7.7	5.4
SEP												
26...	1300	--	--	87	94	5.6	6.1	27.5	20	.60	6.6	5.7
275647082240601 - PALM RIVER AT U S HWY 41 BRIDGE NR TAMPA (LAT 27 56 47 LONG 082 24 06)												
MAY , 1984												
30...	1500	--	--	33400	36000	8.2	6.6	26.5	10	1.7	11.0	300
SEP												
11...	1123	--	--	28400	28300	7.7	7.7	29.0	40	1.8	9.5	260

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L) (70299)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
02297733 - MOSSY GULLY TRIB AT ST HWY 70 NR ARCADIA, FLA. (LAT 27 12 31 LONG 081 40 41)												
MAY , 1984 23...	23	18	2.1	150	25	.70	6.6	350	10	.02	.020	2.6
02297875 - COW SLOUGH NR ARCADIA, FLA. (LAT 27 12 32 LONG 081 34 33)												
MAY , 1984 22...	24	27	2.2	160	39	.60	2.6	392	7	<.02	.020	.71
02301770 - TAMPA BYPASS CANAL ABOVE S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 15)												
FEB , 1984 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	4.3	8.7	1.4	14	13	.30	4.6	182	--	.44	.060	.45
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	8.8	13	.40	7.2	168	--	.09	.030	.87
02307295 - ISLAND FORD LAKE NR ODESSA, FLA. (LAT 28 09 01 LONG 082 35 41)												
APR , 1984 26...	2.3	6.6	2.7	17	14	.70	.2	67	--	--	--	.54
SEP 26...	2.3	6.6	2.8	13	14	.10	<.1	69	--	.03	.020	.48
275647082240601 - PALM RIVER AT U S HWY 41 BRIDGE NR TAMPA (LAT 27 56 47 LONG 082 24 06)												
MAY , 1984 30...	850	7300	280	1800	13000	1.3	1.7	26000	--	--	--	.29
SEP 11...	650	5400	220	1300	9700	1.0	3.1	19400	--	--	--	1.9

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105,	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
02297733 - MOSSY GULLY TRIB AT ST HWY 70 NR ARCADIA, FLA. (LAT 27 12 31 LONG 081 40 41)												
MAY , 1984												
23...	.54	.270	.060	.040	190	2	<1	3	2	3	1500	<1
02297875 - COW SLOUGH NR ARCADIA, FLA. (LAT 27 12 32 LONG 081 34 33)												
MAY , 1984												
22...	.65	.060	.030	.020	210	1	<1	2	2	3	580	1
02301770 - TAMPA BYPASS CANAL ABOVE S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 15)												
FEB , 1984												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.43	.270	.240	.230	--	1	<1	10	--	1	180	1
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
13...	.71	.410	.390	.360	--	1	<1	10	--	1	450	8
02307295 - ISLAND FORD LAKE NR ODESSA, FLA. (LAT 28 09 01 LONG 082 35 41)												
APR , 1984												
26...	--	.020	--	--	--	1	1	10	--	1	240	1
SEP												
26...	.55	.030	.020	.010	--	1	1	10	--	1	150	<1
275647082240601 - PALM RIVER AT U S HWY 41 BRIDGE NR TAMPA (LAT 27 56 47 LONG 082 24 06)												
MAY , 1984												
30...	--	.650	--	--	--	1	<1	20	--	3	680	2
SEP												
11...	--	.580	--	--	--	2	3	40	--	3	200	3

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	PCB, TOTAL (UG/L) (39516)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)
02297733 - MOSSY GULLY TRIB AT ST HWY 70 NR ARCADIA, FLA. (LAT 27 12 31 LONG 081 40 41)												
MAY , 1984 23...	40	<.1	<1	<1	6900	10	81	<.1	<.010	<.1	<.010	<.010
02297875 - COW SLOUGH NR ARCADIA, FLA. (LAT 27 12 32 LONG 081 34 33)												
MAY , 1984 22...	10	<.1	<1	<1	9100	10	78	<.1	<.010	<.1	<.010	<.010
02301770 - TAMPA BYPASS CANAL ABOVE S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 15)												
FEB , 1984 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	20	<.1	--	<1	420	10	131	<.1	<.010	<.1	<.010	<.010
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	<10	.1	--	<1	--	10	89	<.1	<.010	<.1	<.010	<.010
02307295 - ISLAND FORD LAKE NR ODESSA, FLA. (LAT 28 09 01 LONG 082 35 41)												
APR , 1984 26...	20	.5	--	<1	30	20	1.0	--	--	--	--	--
SEP 26...	30	.1	--	<1	70	10	3.7	<.1	<.010	<.1	<.010	<.010
275647082240601 - PALM RIVER AT U S HWY 41 BRIDGE NR TAMPA (LAT 27 56 47 LONG 082 24 06)												
MAY , 1984 30...	70	.8	--	<1	5500	30	128	<.1	<.010	<.1	<.010	<.010
SEP 11...	50	2.1	--	<1	9500	40	127	<.1	<.010	<.1	<.010	<.010

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
02298800 - UPPER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 15 50 LONG 082 17 20)											
OCT , 1983											
06...	1312	--	--	118	123	6.4	6.7	29.0	200	5.0	--
DEC											
12...	1220	--	--	--	209	6.6	7.2	21.0	100	8.2	--
FEB , 1984											
14...	1400	--	--	225	210	6.5	6.5	22.0	100	8.9	--
APR											
05...	1418	--	--	210	213	6.9	7.2	25.0	120	8.0	--
JUN											
07...	1017	--	--	250	260	6.2	6.3	29.0	70	2.5	--
AUG											
07...	1430	--	--	--	152	6.9	6.3	31.0	90	6.7	--
02298849 - LOWER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 13 05 LONG 082 20 00)											
OCT , 1983											
06...	1406	--	--	90	96	5.9	6.4	29.0	160	5.5	--
02301840 - TWENTY-NINTH ST DRAINAGE C AT 34TH ST, TAMPA FL (LAT 27 57 14 LONG 082 25 21)											
DEC , 1983											
14...	1335	--	--	--	192	--	6.6	--	--	--	28
14...	1410	--	--	--	274	--	6.0	--	--	--	13
14...	1445	--	--	--	258	--	6.4	--	--	--	17
14...	1555	--	--	--	347	--	6.1	--	--	--	39
JAN , 1984											
10...	1015	--	--	--	603	--	6.8	--	--	--	--
10...	1045	--	--	--	484	--	6.8	--	--	--	--
10...	1120	--	--	--	376	--	6.5	--	--	--	--
10...	1200	--	--	--	445	--	6.6	--	--	--	--
10...	1305	--	--	--	465	--	6.7	--	--	--	--
10...	1400	--	--	--	484	--	6.7	--	--	--	--
APR											
04...	0935	--	--	--	--	--	--	--	--	--	190
04...	1000	--	--	--	--	--	--	--	--	--	130
02306006 - KIRBY STREET DRAINAGE DITCH AT TAMPA, FLA. (LAT 28 01 07 LONG 082 28 04)											
OCT , 1983											
31...	1620	--	--	--	303	--	7.6	--	--	--	--
NOV											
30...	1145	--	--	--	300	--	7.3	--	--	--	29
DEC											
20...	1420	--	--	--	295	--	7.1	--	--	--	36
JAN , 1984											
10...	0845	--	--	--	345	--	7.3	--	--	--	--
30...	1415	--	--	--	308	--	7.5	18.5	--	9.3	36
APR											
04...	0840	--	--	--	--	--	--	--	--	--	93
04...	1130	--	--	--	177	--	6.8	--	--	--	190
JUN											
28...	1450	--	--	--	304	--	7.6	27.5	--	8.5	20
JUL											
29...	2330	--	--	--	158	--	7.2	--	--	--	39
29...	2400	--	--	--	121	--	7.0	--	--	--	73
SEP											
27...	1015	--	--	--	--	--	--	24.0	--	6.5	97
28...	0030	4.56	--	--	--	--	--	--	--	--	280
28...	0100	4.58	--	--	--	--	--	--	--	--	200
28...	0130	4.55	--	--	--	--	--	--	--	--	290
28...	0200	4.28	--	--	--	--	--	--	--	--	120
28...	0500	4.03	--	--	--	--	--	--	--	--	100
28...	0530	4.43	--	--	--	--	--	--	--	--	130
28...	0600	4.43	--	--	--	--	--	--	--	--	200
28...	0630	4.25	--	--	--	--	--	--	--	--	130
28...	1145	3.33	--	--	--	--	--	25.0	--	--	80

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
02298800 - UPPER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 15 50 LONG 082 17 20)											
OCT , 1983 06...	--	--	--	--	11	4.8	5.3	1.6	18	9.0	.40
DEC 12...	--	--	--	--	15	7.3	7.2	3.0	40	14	.20
FEB , 1984 14...	--	--	--	--	17	7.9	9.7	3.4	46	17	.30
APR 05...	--	--	--	--	20	9.2	11	2.7	47	15	.30
JUN 07...	--	--	--	--	23	11	10	.60	64	16	.60
AUG 07...	--	--	--	--	14	6.5	6.9	.50	23	11	.30
02298849 - LOWER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 13 05 LONG 082 20 00)											
OCT , 1983 06...	--	--	--	--	8.9	3.6	6.3	1.2	18	10	.40
02301840 - TWENTY-NINTH ST DRAINAGE C AT 34TH ST, TAMPA FL (LAT 27 57 14 LONG 082 25 21)											
DEC , 1983 14...	6.6	--	--	--	--	--	--	--	--	--	--
14...	6.0	--	--	--	--	--	--	--	--	--	--
14...	4.6	--	--	--	--	--	--	--	--	--	--
14...	6.0	--	--	--	--	--	--	--	--	--	--
JAN , 1984 10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
APR 04...	8.8	--	--	--	--	--	--	--	--	--	--
04...	8.8	--	--	--	--	--	--	--	--	--	--
02306006 - KIRBY STREET DRAINAGE DITCH AT TAMPA, FLA. (LAT 28 01 07 LONG 082 28 04)											
OCT , 1983 31...	--	--	--	--	--	--	--	--	--	--	--
NOV 30...	1.0	--	--	--	--	--	--	--	--	--	--
DEC 20...	1.1	--	--	--	--	--	--	--	--	--	--
JAN , 1984 10...	--	--	--	--	--	--	--	--	--	--	--
30...	E3.6	--	--	--	--	--	--	--	--	--	--
APR 04...	6.1	--	--	--	--	--	--	--	--	--	--
04...	4.8	--	--	--	--	--	--	--	--	--	--
JUN 28...	.9	--	--	--	--	--	--	--	--	--	--
JUL 29...	1.7	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	1.6	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)
02298800 - UPPER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 15 50 LONG 082 17 20)										
OCT , 1983										
06...	4.7	115	--	--	--	--	--	--	--	--
DEC										
12...	1.7	143	--	--	--	--	--	--	--	--
FEB , 1984										
14...	.4	155	--	--	--	--	--	--	--	--
APR										
05...	2.1	160	--	--	--	--	--	--	--	--
JUN										
07...	.9	200	--	--	--	--	--	--	--	--
AUG										
07...	.6	106	--	--	--	--	--	--	--	--
02298849 - LOWER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 13 05 LONG 082 20 00)										
OCT , 1983										
06...	1.4	98	--	--	--	--	--	--	--	--
02301840 - TWENTY-NINTH ST DRAINAGE C AT 34TH ST, TAMPA FL (LAT 27 57 14 LONG 082 25 21)										
DEC , 1983										
14...	--	--	68	.030	2.4	1.80	2.3	1.10	.750	--
14...	--	--	49	.040	5.6	4.30	4.4	1.70	1.50	--
14...	--	--	42	.030	2.6	2.00	2.6	1.00	.740	--
14...	--	--	32	.040	3.2	2.40	2.9	1.00	.810	--
JAN , 1984										
10...	--	--	44	--	--	--	--	--	--	--
10...	--	--	38	--	--	--	--	--	--	--
10...	--	--	36	--	--	--	--	--	--	--
10...	--	--	34	--	--	--	--	--	--	--
10...	--	--	27	--	--	--	--	--	--	--
10...	--	--	38	--	--	--	--	--	--	--
APR										
04...	--	--	240	.040	2.5	2.60	7.8	3.10	.670	--
04...	--	--	128	.040	3.5	3.10	6.4	1.70	.640	--
02306006 - KIRBY STREET DRAINAGE DITCH AT TAMPA, FLA. (LAT 28 01 07 LONG 082 28 04)										
OCT , 1983										
31...	--	--	18	--	--	--	--	--	--	--
NOV										
30...	--	--	4	.020	.36	.050	.52	.060	.030	--
DEC										
20...	--	--	12	.040	.36	.170	.77	.060	.040	--
JAN , 1984										
10...	--	--	240	--	--	--	--	--	--	--
30...	--	--	7	.020	.50	.070	.70	.060	.040	--
APR										
04...	--	--	--	.040	.42	.250	2.9	.430	.120	--
04...	--	--	220	.040	.26	.200	5.0	.750	.170	--
JUN										
28...	--	--	1	<.010	.05	.020	.59	.070	.040	--
JUL										
29...	--	--	153	.030	.30	.040	.92	.480	.300	--
29...	--	--	65	.100	.22	.130	1.4	1.30	.650	--
SEP										
27...	--	--	160	<.010	.14	.030	1.3	.230	.050	--
28...	--	--	408	.020	.15	.030	7.3	1.90	.180	--
28...	--	--	304	.020	.14	.020	2.6	1.30	.220	--
28...	--	--	265	.040	.18	.040	3.5	1.80	.310	--
28...	--	--	195	.020	.17	.030	1.7	.820	.220	--
28...	--	--	120	.020	.17	.020	1.7	.570	.130	--
28...	--	--	204	.020	.18	.020	2.1	.880	.160	--
28...	--	--	197	.020	.16	.020	1.9	.790	.200	--
28...	--	--	169	.020	.16	.030	.82	1.00	.240	--
28...	--	--	33	.020	.20	.100	1.5	.350	.110	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, TOTAL (UG/L AS SE) (01147)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
02298800 - UPPER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 15 50 LONG 082 17 20)										
OCT , 1983										
06...	--	--	--	--	--	--	480	--	--	18
DEC										
12...	--	--	--	--	--	--	750	--	--	23
FEB , 1984										
14...	--	--	--	--	--	--	730	--	--	21
APR										
05...	--	--	--	--	--	--	950	--	--	21
JUN										
07...	--	--	--	--	--	--	1000	--	--	36
AUG										
07...	--	--	--	--	--	--	710	--	--	31
02298849 - LOWER MYAKKA LAKE NR SARASOTA, FLA. (LAT 27 13 05 LONG 082 20 00)										
OCT , 1983										
06...	--	--	--	--	--	--	360	--	--	13
02301840 - TWENTY-NINTH ST DRAINAGE C AT 34TH ST, TAMPA FL (LAT 27 57 14 LONG 082 25 21)										
DEC , 1983										
14...	--	--	--	200	--	--	--	--	--	--
14...	--	--	--	200	--	--	--	--	--	--
14...	--	--	--	400	--	--	--	--	--	--
14...	--	--	--	400	--	--	--	--	--	--
JAN , 1984										
10...	--	150	--	150	--	--	--	--	--	--
10...	--	--	--	84	--	--	--	--	--	--
10...	--	--	--	87	--	--	--	--	--	--
10...	--	--	--	99	--	--	--	--	--	--
10...	--	150	--	150	--	--	--	--	--	--
10...	--	150	--	150	--	--	--	--	--	--
APR										
04...	--	--	--	400	-	--	--	--	--	--
04...	--	--	--	300	--	--	--	--	--	--
02306006 - KIRBY STREET DRAINAGE DITCH AT TAMPA, FLA. (LAT 28 01 07 LONG 082 28 04)										
OCT , 1983										
31...	--	--	--	6	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
DEC										
20...	--	--	--	10	--	--	--	--	--	--
JAN , 1984										
10...	--	--	--	69	--	--	--	--	--	--
30...	--	--	--	17	--	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	66	--	--	--	--	--	--
JUN										
28...	--	--	--	<1	--	--	--	--	--	--
JUL										
29...	--	--	--	29	--	--	--	--	--	--
29...	--	--	--	<1	--	--	--	--	--	--
SEP										
27...	--	--	--	19	--	--	--	--	--	--
28...	--	--	--	300	--	--	--	--	--	--
28...	--	--	--	200	--	--	--	--	--	--
28...	--	--	--	300	--	--	--	--	--	--
28...	--	--	--	42	--	--	--	--	--	--
28...	--	--	--	42	--	--	--	--	--	--
28...	--	--	--	65	--	--	--	--	--	--
28...	--	--	--	62	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	16	--	--	--	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
02300200 - SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25 LONG 082 10 57)											
OCT , 1983 19...	1245	--	--	--	6.5	6.6	24.0	160	--	6.7	1.3
JAN , 1984 16...	1440	.05	110	--	6.4	--	16.0	--	--	6.4	--
FEB 16...	1305	.55	120	--	6.6	--	19.0	--	--	6.2	--
APR 11...	1135	-.84	120	--	6.8	--	20.0	--	--	3.9	--
MAY 23...	1145	--	179	166	5.5	6.9	23.5	30	--	5.6	1.3
AUG 20...	1320	-.34	--	--	7.7	--	26.0	--	--	4.5	--
02301766 - TAMPA BYPASS CANAL BELOW S-159 NEAR TAMPA,FLA (LAT 28 02 04 LONG 082 20 34)											
JAN , 1984 04...	1400	14.28	340	--	7.3	--	14.5	--	--	8.7	--
FEB 27...	1114	14.21	442	--	6.4	--	24.0	--	--	9.9	--
MAY 30...	1204	14.32	430	450	8.0	6.9	26.0	5	2.1	6.2	--
AUG 14...	1415	14.40	402	--	8.5	--	27.0	--	--	9.7	--
SEP 12...	1000	14.00	438	432	8.1	8.1	27.0	30	1.3	10.4	--
02301771 - TAMPA BYPASS CANAL BELOW S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 14)											
SEP , 1984 13...	1130	14.45	453	452	7.8	7.9	28.5	40	1.0	7.8	1.6

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
02300200 - SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25 LONG 082 10 57)											
OCT , 1983 19...	--	--	--	5.9	3.0	5.1	--	7.2	15	.30	4.2
MAY , 1984 23...	--	--	--	16	7.3	6.0	--	21	9.0	.30	10
02301766 - TAMPA BYPASS CANAL BELOW S-159 NEAR TAMPA,FLA (LAT 28 02 04 LONG 082 20 34)											
MAY , 1984 30...	--	--	--	74	6.9	7.1	--	85	12	.30	8.1
SEP 12...	--	--	--	77	7.0	8.0	125	78	22	.20	10
02301771 - TAMPA BYPASS CANAL BELOW S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 14)											
SEP , 1984 13...	K190	K3	K13	79	7.4	9.8	136	72	15	.40	9.4

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
02300200 - SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25 LONG 082 10 57)											
OCT , 1983 19...	96	--	--	--	--	--	--	230	1	--	--
JAN , 1984 16...	--	<.010	.07	.020	.69	.280	.220	--	--	--	--
FEB 16...	--	.010	.04	.030	.78	.380	.330	--	--	--	--
APR 11...	--	.010	.08	.020	.56	.570	.520	--	--	--	--
MAY 23...	110	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	.010	.08	.020	1.1	.400	.350	--	--	--	--
02301766 - TAMPA BYPASS CANAL BELOW S-159 NEAR TAMPA,FLA (LAT 28 02 04 LONG 082 20 34)											
JAN , 1984 04...	--	.020	.48	.040	.48	.230	.190	--	--	--	--
FEB 27...	--	.010	.79	.020	.45	.120	.080	--	--	--	--
MAY 30...	300	.010	.35	.020	.71	.120	.050	--	3	<100	<10
AUG 14...	--	.010	.04	.050	1.2	.190	.110	--	--	--	--
SEP 12...	324	.010	.26	.030	.85	.180	.110	--	1	<100	<10
02301771 - TAMPA BYPASS CANAL BELOW S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 14)											
SEP , 1984 13...	311	.010	<.02	.020	.71	.210	.150	--	1	<100	<10

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
02300200 - SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25 LONG 082 10 57)											
OCT , 1983 19...	<1	--	--	3	580	170	410	1	0	1	<10
02301766 - TAMPA BYPASS CANAL BELOW S-159 NEAR TAMPA,FLA (LAT 28 02 04 LONG 082 20 34)											
MAY , 1984 30...	1	10	2	--	100	--	--	<1	--	--	30
SEP 12...	<1	10	1	--	200	--	--	9	--	--	20
02301771 - TAMPA BYPASS CANAL BELOW S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 14)											
SEP , 1984 13...	<1	<10	1	--	190	--	--	7	--	--	30

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
02300200 - SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25 LONG 082 10 57)										
OCT , 1983										
19...	<10	<.1	<1	--	--	91	--	20	21	9.0
MAY , 1984										
23...	--	--	--	--	--	400	--	--	6.8	47
02301766 - TAMPA BYPASS CANAL BELOW S-159 NEAR TAMPA,FLA (LAT 28 02 04 LONG 082 20 34)										
MAY , 1984										
30...	--	<.1	1	<1	<1	870	10	--	5.3	120
SEP										
12...	--	.1	1	<1	<1	980	<10	--	9.0	138
02301771 - TAMPA BYPASS CANAL BELOW S-161 NEAR TAMPA,FLA (LAT 28 01 05 LONG 082 22 14)										
SEP , 1984										
13...	--	.1	<1	<1	<1	970	<10	--	6.5	138

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	STREAM STAGE (FT ABOVE DATUM) (00065)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
02306014 - HILLSBOROUGH RIVER AT SLIGH AVE AT TAMPA,FL (LAT 28 00 38 LONG 082 27 54)										
OCT , 1983										
05...	1115	6.40	11.86	157	--	860	--	--	24.5	5.2
13...	1230	5.10	10.62	157	--	950	--	--	26.0	5.0
19...	1415	6.40	11.93	157	--	840	--	--	25.5	5.8
31...	1100	6.50	12.04	157	--	9150	--	--	25.0	6.3
NOV										
21...	1230	4.80	10.34	157	--	2060	--	--	20.5	7.8
30...	1245	5.60	11.10	157	--	4600	--	--	21.5	6.9
DEC										
08...	1415	4.20	9.65	157	--	8600	--	--	20.0	8.8
14...	1330	6.00	11.48	157	--	1230	--	--	20.0	7.7
23...	0915	4.30	9.83	157	--	310	--	--	18.5	8.0
JAN , 1984										
09...	1015	4.20	9.67	157	--	370	--	--	12.5	8.9
18...	0930	3.60	9.12	157	--	302	--	--	11.5	9.6
FEB										
01...	1000	2.40	7.92	157	--	375	--	--	17.0	6.2
03...	1120	1.80	9.30	157	--	448	--	--	17.5	6.4
08...	1435	2.10	9.62	157	--	770	--	--	17.0	7.8
15...	0915	.70	8.23	157	--	2000	--	--	17.0	7.5
23...	1330	2.90	10.38	157	--	340	--	--	20.0	6.1
MAR										
05...	1045	2.60	10.11	157	--	286	--	--	16.5	8.4
14...	1130	2.80	10.32	157	--	480	--	--	19.5	6.9
16...	0815	1.40	8.85	157	--	390	--	--	19.5	6.9
21...	1315	2.50	10.02	157	--	680	--	--	22.0	6.3
30...	0845	1.10	8.59	157	--	1140	--	--	21.0	5.8
APR										
10...	1145	4.00	11.46	157	--	370	--	--	21.5	7.2
19...	1515	4.60	12.15	157	--	610	--	--	22.0	6.1
25...	1500	3.30	10.80	157	--	1240	--	--	25.0	6.8
MAY										
02...	1445	5.10	12.57	157	--	15600	--	--	26.5	.9
09...	1600	2.80	10.30	157	--	9700	--	--	28.0	9.1
16...	1600	4.40	11.95	157	--	17900	--	--	28.5	4.0
24...	1530	3.40	10.86	157	--	9100	--	--	27.5	1.6
31...	1400	4.00	11.50	157	--	16700	--	--	26.5	3.3
JUN										
06...	1515	3.60	11.08	157	--	19900	--	--	28.0	3.9
13...	1430	5.20	12.75	157	--	16500	--	--	28.0	2.7
20...	1315	3.20	10.74	157	--	12500	--	--	27.5	5.8
JUL										
03...	1400	3.70	11.21	157	--	6270	--	--	28.0	6.8
09...	1530	3.90	11.37	157	--	514	--	--	29.5	--
19...	0945	3.80	11.25	157	--	500	--	--	28.0	6.5
24...	1330	4.00	11.50	157	--	460	--	--	28.5	5.8
31...	1345	4.40	11.86	157	--	390	--	--	28.0	5.7
AUG										
16...	1130	2.70	10.21	157	--	550	--	--	28.0	7.0
22...	1415	3.30	10.77	157	--	580	--	--	27.0	--
30...	0930	3.10	10.58	157	--	600	--	--	26.0	5.0
SEP										
05...	1200	4.90	12.43	157	--	630	--	--	27.0	4.6
13...	1200	2.40	9.91	157	--	4400	--	--	26.5	--
20...	1045	4.30	11.82	157	--	1400	--	--	26.0	3.3
27...	1245	1.30	8.80	157	--	11700	--	--	26.5	4.7

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM STAGE (FT ABOVE DATUM) (00065)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	SPE-CIFIC CON-DUC-TANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
02307243 - BROOKER CREEK NR ODESSA, FLA. (LAT 28 08 50 LONG 082 35 40)											
APR , 1984											
26...	1445	--	--	87	85	6.6	5.8	27.0	30	8.5	--
02307828 - DRAINAGE DITCH AT 110TH AV N NR PINELLAS PARK FL (LAT 27 52 18 LONG 082 40 38)											
OCT , 1983											
24...	0945	--	--	--	1760	--	7.0	--	--	--	110
24...	1000	--	--	--	1730	--	7.1	--	--	--	--
NOV											
02...	1105	--	--	--	1620	--	7.5	--	--	--	--
20...	1330	--	--	--	--	--	--	--	--	--	120
20...	1345	--	--	--	616	--	7.4	--	--	--	--
20...	1400	--	--	--	--	--	--	--	--	--	--
20...	1415	--	--	--	--	--	--	--	--	--	--
DEC											
02...	1050	--	--	--	1140	--	7.5	--	--	--	39
19...	1625	--	--	--	1380	--	7.3	--	--	--	28
JAN , 1984											
25...	1442	--	--	--	231	--	7.5	--	--	--	--
JUN											
27...	1525	--	--	--	4340	--	6.9	34.5	--	7.2	110
SEP											
19...	1425	6.33	.08	1780	--	--	--	26.0	--	4.5	110
02308990 - BONN CREEK AT PINELLAS PARK FL (LAT 27 49 21 LONG 082 44 08)											
OCT , 1983											
25...	1113	1.45	4.1	--	450	--	7.3	--	--	--	30
DEC											
01...	1255	1.34	1.6	--	648	--	7.5	--	--	--	30
15...	1130	--	--	--	391	--	7.1	--	--	--	35
19...	1245	1.46	3.9	--	592	--	7.4	--	--	--	28
JAN , 1984											
25...	1105	1.44	2.4	--	682	--	7.5	--	--	--	--
JUN											
26...	1355	1.36	.93	--	619	--	7.5	30.0	--	7.8	35
SEP											
18...	1215	1.37	.59	--	--	--	--	28.0	--	6.0	65
02309494 - HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22 LONG 082 46 21)											
JUN , 1984											
20...	1145	--	--	3290	3110	7.3	7.4	25.0	--	--	<1
AUG											
21...	1300	--	--	2000	1960	6.4	7.3	23.5	--	--	23
274920082440901 - BONN CREEK AT CONTROL AT PINELLAS PARK, FL (LAT 27 49 20 LONG 082 44 09)											
OCT , 1983											
25...	1106	--	--	--	445	--	7.2	--	--	--	25
DEC											
01...	1200	--	--	--	645	--	7.5	--	--	--	32
19...	1120	--	--	--	590	--	7.4	--	--	--	28
JAN , 1984											
25...	1110	--	--	--	684	--	7.5	--	--	--	33
JUN											
26...	1410	--	--	--	622	--	7.5	30.0	--	6.8	39
SEP											
18...	1225	--	--	--	--	--	--	27.0	--	3.6	67

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
02307243 - BROOKER CREEK NR ODESSA, FLA. (LAT 28 08 50 LONG 082 35 40)											
APR , 1984											
26...	--	--	--	--	4.4	1.9	6.3	2.0	15	13	.10
02307828 - DRAINAGE DITCH AT 110TH AV N NR PINELLAS PARK FL (LAT 27 52 18 LONG 082 40 38)											
OCT , 1983											
24...	8.5	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
20...	8.8	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	6.0	--	--	--	--	--	--	--	--	--	--
19...	2.2	--	--	--	--	--	--	--	--	--	--
JAN , 1984											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	6.2	--	--	--	--	--	--	--	--	--	--
SEP											
19...	8.9	--	--	--	--	--	--	--	--	--	--
02308990 - BONN CREEK AT PINELLAS PARK FL (LAT 27 49 21 LONG 082 44 08)											
OCT , 1983											
25...	2.6	--	--	--	--	--	--	--	--	--	--
DEC											
01...	2.0	--	--	--	--	--	--	--	--	--	--
15...	3.2	--	--	--	--	--	--	--	--	--	--
19...	1.5	--	--	--	--	--	--	--	--	--	--
JAN , 1984											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	2.6	--	--	--	--	--	--	--	--	--	--
SEP											
18...	1.4	--	--	--	--	--	--	--	--	--	--
02309494 - HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22 LONG 082 46 21)											
JUN , 1984											
20...	.7	<1	<1	<1	87	50	470	18	--	--	--
AUG											
21...	.8	22	K4	K2	64	31	240	12	--	--	--
274920082440901 - BONN CREEK AT CONTROL AT PINELLAS PARK, FL (LAT 27 49 20 LONG 082 44 09)											
OCT , 1983											
25...	2.6	--	--	--	--	--	--	--	--	--	--
DEC											
01...	2.2	--	--	--	--	--	--	--	--	--	--
19...	1.4	--	--	--	--	--	--	--	--	--	--
JAN , 1984											
25...	1.4	--	--	--	--	--	--	--	--	--	--
JUN											
26...	1.8	--	--	--	--	--	--	--	--	--	--
SEP											
18...	1.4	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)
02307243 - BROOKER CREEK NR ODESSA, FLA. (LAT 28 08 50 LONG 082 35 40)										
APR , 1984										
26...	.4	64	--	<.010	<.02	.020	.54	.020	.010	--
02307828 - DRAINAGE DITCH AT 110TH AV N NR PINELLAS PARK FL (LAT 27 52 18 LONG 082 40 38)										
OCT , 1983										
24...	--	--	448	.030	.03	.630	3.4	.530	.230	--
24...	--	--	440	--	--	--	--	--	--	--
NOV										
02...	--	--	13	--	--	--	--	--	--	--
20...	--	--	--	.070	.17	1.20	6.6	.360	.100	--
20...	--	--	37	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	--	--	6	.100	.20	.240	1.9	.130	.030	--
19...	--	--	8	.020	.04	.280	1.4	.120	.030	--
JAN , 1984										
25...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	--	--	14	.020	.04	1.50	4.0	.110	.040	--
SEP										
19...	--	--	28	.020	.04	.120	3.0	.140	.040	--
02308990 - BONN CREEK AT PINELLAS PARK FL (LAT 27 49 21 LONG 082 44 08)										
OCT , 1983										
25...	--	--	4	.020	.19	.020	.65	.140	.120	--
DEC										
01...	--	--	10	.020	.23	.280	.83	.140	.080	--
15...	--	--	5	.010	.16	.080	.80	.180	.120	--
19...	--	--	4	.020	.20	.150	1.0	.100	.080	--
JAN , 1984										
25...	--	--	<1	--	--	--	--	--	--	--
JUN										
26...	--	--	22	<.010	.03	.110	.92	.180	.090	--
SEP										
18...	--	--	38	.010	.03	.100	.97	.140	.060	--
02309494 - HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22 LONG 082 46 21)										
JUN , 1984										
20...	--	--	--	.010	7.8	.030	<.05	.130	.080	2
AUG										
21...	--	--	--	<.010	7.6	.010	.35	.130	.110	3
274920082440901 - BONN CREEK AT CONTROL AT PINELLAS PARK, FL (LAT 27 49 20 LONG 082 44 09)										
OCT , 1983										
25...	--	--	6	.020	.20	.060	.76	.150	.120	--
DEC										
01...	--	--	8	.020	.22	.330	.90	.160	.100	--
19...	--	--	4	.020	.23	.160	.86	.120	.090	--
JAN , 1984										
25...	--	--	<1	.020	.16	.060	.62	.070	.060	--
JUN										
26...	--	--	11	.010	.03	.140	.89	.160	.090	--
SEP										
18...	--	--	9	.010	.03	.110	.61	.090	.070	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, TOTAL (UG/L AS SE) (01147)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKALINITY LAB (MG/L AS CACO3) (90410)
02307243 - BROOKER CREEK NR ODESSA, FLA. (LAT 28 08 50 LONG 082 35 40)										
APR , 1984										
26...	--	--	60	--	--	--	30	--	8.6	2.0
02307828 - DRAINAGE DITCH AT 110TH AV N NR PINELLAS PARK FL (LAT 27 52 18 LONG 082 40 38)										
OCT , 1983										
24...	20	87	--	95	<.1	--	--	390	--	--
24...	17	73	--	78	<.1	--	--	270	--	--
NOV										
02...	22	10	--	10	<.1	--	--	90	--	--
20...	5	8	--	12	--	--	--	50	--	--
20...	7	8	--	19	--	--	--	50	--	--
20...	17	29	--	50	--	--	--	170	--	--
20...	10	40	--	67	--	--	--	210	--	--
DEC										
02...	10	3	--	2	--	--	--	40	--	--
19...	--	--	--	17	--	--	--	--	--	--
JAN , 1984										
25...	38	23	--	11	.2	--	--	50	--	--
JUN										
27...	4	12	--	7	--	--	--	40	--	--
SEP										
19...	1	17	--	16	.4	--	--	60	--	--
02308990 - BONN CREEK AT PINELLAS PARK FL (LAT 27 49 21 LONG 082 44 08)										
OCT , 1983										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	8	--	--	--	--	--	--
15...	9	7	--	21	<.1	--	--	30	--	--
19...	--	--	--	16	--	--	--	--	--	--
JAN , 1984										
25...	--	--	--	5	--	--	--	--	--	--
JUN										
26...	--	--	--	10	--	--	--	--	--	--
SEP										
18...	--	--	--	12	--	--	--	--	--	--
02309494 - HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22 LONG 082 46 21)										
JUN , 1984										
20...	--	--	--	--	--	1	--	--	--	--
AUG										
21...	--	--	--	--	--	2	--	--	--	--
274920082440901 - BONN CREEK AT CONTROL AT PINELLAS PARK, FL (LAT 27 49 20 LONG 082 44 09)										
OCT , 1983										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	6	--	--	--	--	--	--
19...	--	--	--	11	--	--	--	--	--	--
JAN , 1984										
25...	--	--	--	4	--	--	--	--	--	--
JUN										
26...	--	--	--	4	--	--	--	--	--	--
SEP										
18...	--	--	--	5	--	--	--	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

PHYTOPLANKTON ANALYSES

02299060 - DEER PRAIRE SLOUGH NR MYAKKA CITY, FL

DATE	TIME	CHLORO PHYCEAE (96001)	CHLAMY DOMONAS (96014)	PEDIAS TRUM (96197)	ANKIS TRODES MUS (96202)	SELENA STRUM (96225)	TETRAE DRON (96226)	ACTINA STRUM (96238)	CRUCI GENIA (96240)	SCENE DESMUS (96243)	CLOSTE RIUM (96312)	EUA STRUM (96317)
MAY 10...	1320	3000	87	L1	870	--	87	440	L1	690	3	87
SEP 19...	1023	590	--	--	--	390	--	--	--	--	65	--

DATE	PHACUS (96390)	CRYPTO MONAS (96416)	CRYPTO PHYCEAE (96423)	CRYPTO MONAS (96430)	MALLO MONAS (96595)	FRAGILA RIA (96764)	NITZ SCHIA (97952)	DACTYLO COCCOP SIS (98067)	A. CYANEA (98085)	OSCIL LATORIA (98136)	ANABAE NA (98165)	ANA BAENA (98199)
MAY 10...	23	87	260	--	L1	--	410	1000	7900	390	--	76
SEP 19...	--	--	130	65	--	65	--	65	590	290	390	--

02299420 - MUD LAKE SLOUGH NR MYAKKA CITY, FL

DATE	TIME	CHLORO PHYCEAE (96001)	CARTER IA (96013)	SELENA STRUM (96225)	CRUCI GENIA (96240)	SCENE DESMUS (96243)	CLOSTE RIUM (96312)	EUA STRUM (96317)
MAY 11...	1017	1200	--	87	170	350	7	22
SEP 19...	0912	--	130	--	--	--	--	--

DATE	STAURA STRUM (96327)	CRYPTO PHYCEAE (96423)	PERIDI NIUM (96487)	FRAGILA RIA (96764)	A. CYANEA (98085)	OSCIL LATORIA (98136)	ANA BAENA (98199)
MAY 11...	L1	610	L1	--	8300	--	76
SEP 19...	--	--	--	200	1900	420	32

DATE	TIME	CRYPTO MONAS (96416)	PRORO CENTRUM (96447)	KATODI NIUM (96457)	DINO PHYSIS (96467)	PERIDI NIUM (96487)	SKELE TONEMA (96709)
275647082240601 - PALM RIVER AT U S HWY 41 BRIDGE NR TAMPA (LAT 27 56 47 LONG 082 24 06)							
SEP , 1984 11...	1123	3	320	12	180	240	9

WITHLACOOCHEE RIVER BASIN

284950082082001 LITTLE JONES CREEK AT MOUTH

WATER-QUALITY RECORDS

LOCATION.--Lat 28°49'50", long 82°08'20", in SE¼ sec.18, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, samples collected from boat, at mouth of Jones Creek, 1.6 mi north of Outlet River, 2.0 mi north of Panacoochee Retreats.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
APR 29...	0945	302	7.3	22.0	35	5.1	--	--	50	5.1	5.0
SEP 05...	1330	--	6.8	25.0	28	6.5	20	40	50	4.9	4.8

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
APR 29...	.40	19	8.9	.20	11	188	<.010	.60	.030	.47
SEP 05...	.40	19	9.0	.20	10	211	<.010	.80	.020	.38

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
APR 29...	.50	1.1	.110	.34	.090	<10	1	1	<1	60
SEP 05...	.40	1.2	.090	--	.070	20	<1	<1	6	140

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
APR 29...	36	1	1	10	2	.1	4	290	22	4.3
SEP 05...	30	<1	<1	<10	3	.1	<1	290	10	4.2

ELEVATION AND WATER QUALITY OF LAKES

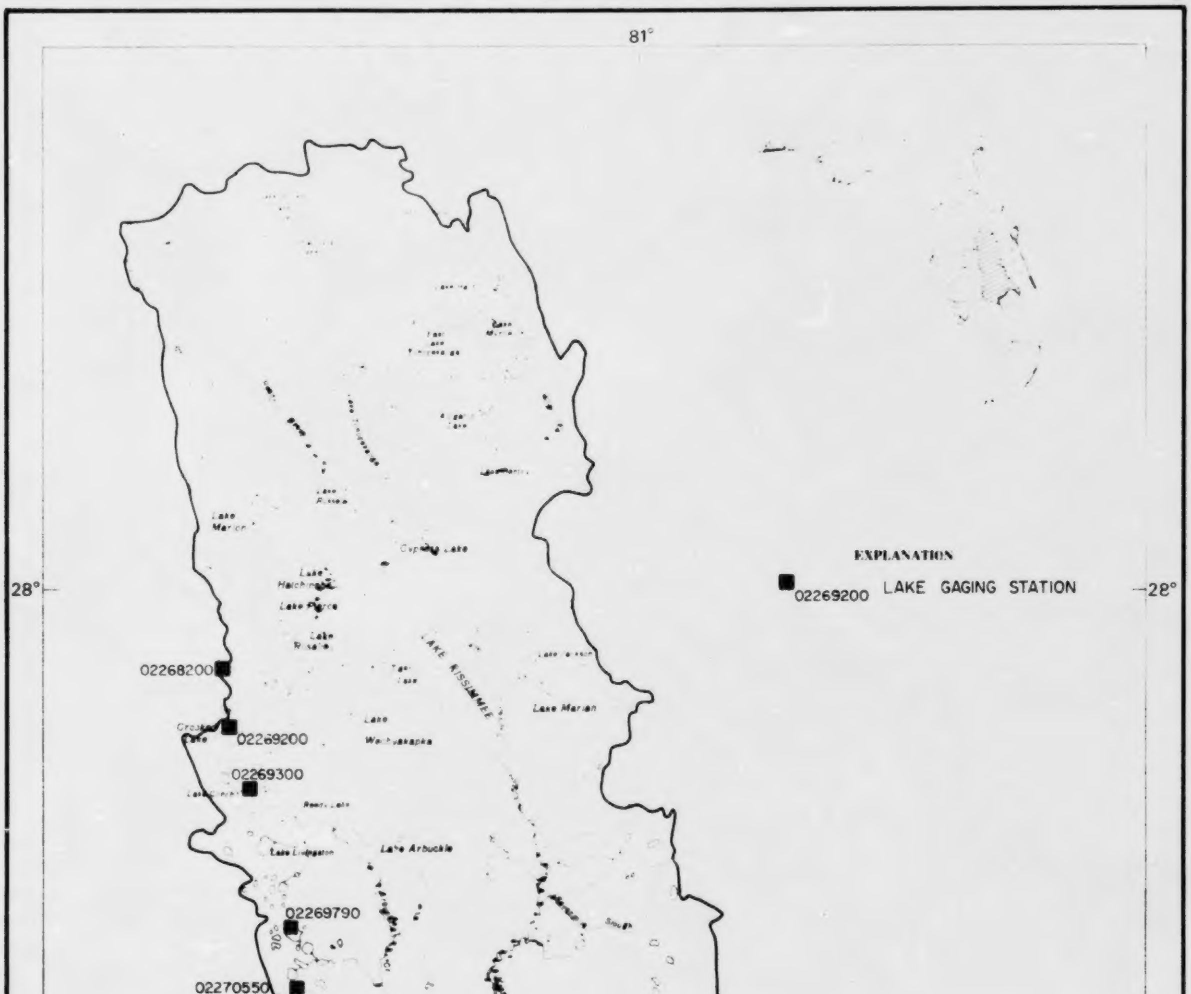

Figure 9. Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and the Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

02269200 CROOKED LAKE NEAR BABSON PARK, FL

LOCATION.--Lat 27°49'39", long 81°33'12", in SE¼ sec.31, T.30 S., R.28 E., Polk County, Hydrologic Unit 03090101, on a peninsula point on the east shore near north end of lake, and 1.5 mi west of Babson Park.

SURFACE AREA.--5,533 acres (8.65 mi²).

DRAINAGE AREA.--31.3 mi².

PERIOD OF RECORD.--April 1945 to current year (weekly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Feb. 6, 1968, at site 0.2 mi west at datum 15.71 ft higher; Feb. 7, 1968, to Apr. 16, 1976, at same site at datum 15.71 ft higher.

REMARKS.--Lake is one of the Arbuckle Creek headwaters chain of lakes. Lake level controlled by concrete control with removable boards.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 124.1 ft about Sept. 11, 1960, from floodmark; minimum daily, 108.27 ft May 23, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 113.21 ft Oct. 23; minimum daily, 111.05 ft Sept. 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	113.15	---	113.02	---	---	---	---	---	111.43
3	---	---	112.97	---	---	---	---	---	112.00	---	---	---
4	---	113.10	---	---	113.10	---	---	---	---	---	111.70	---
5	113.03	---	---	---	---	---	---	112.14	---	---	---	---
6	---	---	---	---	---	---	---	---	111.94	---	---	---
7	---	---	---	113.15	---	---	---	---	---	111.84	---	---
8	112.98	---	---	---	---	---	---	---	---	---	---	111.37
9	---	---	---	---	---	112.95	---	---	111.89	---	111.64	---
10	---	---	112.88	---	113.00	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	111.60	---
12	---	---	---	---	---	---	---	112.18	---	---	---	---
13	---	113.05	---	---	---	---	---	---	---	111.77	---	---
14	---	---	---	113.14	---	---	112.70	---	111.75	---	---	---
15	113.18	---	113.06	---	113.05	---	---	---	---	---	---	111.25
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	113.10	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	112.97	---	---	---	---	111.46	---
19	---	112.94	---	---	113.02	---	---	112.00	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	112.65	---	---	111.86	---	---
22	---	---	---	113.14	---	---	---	---	---	---	---	---
23	113.21	---	---	---	---	---	---	---	111.87	---	---	111.06
24	---	---	---	---	113.06	112.95	---	---	---	---	111.52	---
25	---	---	113.05	---	---	---	---	---	---	---	---	---
26	---	112.91	---	---	---	---	---	112.02	---	---	111.49	---
27	---	---	---	---	---	112.94	112.53	---	---	---	---	---
28	---	---	---	113.16	---	---	---	---	---	---	---	111.05
29	---	---	---	---	---	---	---	---	---	111.77	---	---
30	113.12	---	---	---	---	---	---	---	111.82	---	---	---
31	---	---	---	---	---	112.85	---	---	---	---	---	---

02269300 LAKE CLINCH AT FROSTPROOF, FL

LOCATION.--Lat 27°45'15", long 81°32'25", in SW¼ sec.29, T.31 S., R.28 E., Polk County, Hydrologic Unit 03090101, on north shore of lake, on private pier, and 0.9 mi northwest of Frostproof.

SURFACE AREA.--1,194 acres (1.87 mi^2).

DRAINAGE AREA.--42.0 mi^2.

PERIOD OF RECORD.--January 1947 to December 1977 (weekly), incomplete; January 1978 to November 1981, incomplete; December 1981 to current year (weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Sept. 13, 1953, at site 0.8 mi southeast at same datum.

REMARKS.--Lake is one of the Arbuckle Creek headwater lakes. Outflow is to Reedy Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 110.2 ft on or about Oct. 10, 1948, from floodmark; minimum daily, 100.28 ft May 24, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 104.32 ft Oct. 25; minimum daily, 102.90 ft May 17, June 9.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	103.94	---	---	---	---	103.40	103.10	103.05	103.74	103.55
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	104.08	---	103.96	103.84	---	103.60	---	---	---	---	---
4	---	104.06	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	103.95	---	---	---	---	103.74	---	---	---	---	---	---
8	---	---	103.90	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	102.90	103.48	103.65	103.52
10	---	104.06	---	103.96	---	---	103.50	103.09	---	---	---	---
11	104.00	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	103.66	---	---	---	103.47	---	---
13	---	---	---	103.91	---	---	---	---	---	---	---	103.42
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	103.80	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	102.90	102.95	103.55	103.55	103.45
18	104.16	103.98	---	103.88	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	104.00	---	---	---	103.44	---	---	---	---	---
21	---	---	---	---	103.78	103.74	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	104.32	103.96	---	---	---	---	103.38	103.05	103.00	103.75	103.60	103.35
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	103.94	---	---	---	---	---	---	---	---
28	---	---	103.98	---	---	---	---	---	---	---	---	---
29	---	---	---	---	103.80	---	---	---	---	---	---	---
30	---	---	---	---	---	103.66	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

02269790 LAKE LOTELA NEAR AVON PARK, FL

LOCATION.--Lat 27°34'38", long 81°29'38", in SW¼ sec.26, T.33 S., R.28 E., Highlands County, Hydrologic Unit 03090101, on west shore of lake near intake channel at power plant, and 1.5 mi southeast of Avon Park.

SURFACE AREA.--795 acres (1.24 mi^2).

DRAINAGE AREA.--12.2 mi^2.

PERIOD OF RECORD.--September 1950 to September 1975 (weekly), incomplete; October 1979 to current year (twice weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 99.93 ft National Geodetic Vertical Datum of 1929 (levels by Florida Power Corporation); gage readings have been reduced to elevations NGVD. Prior to Feb. 6, 1973, at several locations 1 mi northeast at same datum; Feb. 6, 1973, to Sept. 24, 1973, at site 200 ft north at same datum.

REMARKS.--Lake is one of a chain of lakes in the headwaters of Carter Creek, a tributary of Arbuckle Creek. Lake has two outlets which join before entering Lake Letta; one outlet has a concrete dam with removable boards, the other outlet flows only at high lake elevations. Florida Power Corporation circulates 86.4 mgd for cooling purposes. Since Aug. 26, 1973, pumpage from deep well into Florida Power intake canal to maintain lake at level necessary for power plant operation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 109.38 ft July 25, 1954; minimum daily, 100.23 ft June 30, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 107.05 ft Oct. 12; minimum daily, 105.17 ft May 22.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106.91	106.87	106.69	106.71	106.51	106.46	106.31	105.78	105.61	105.53	105.51	105.39
2	106.91	106.87	106.68	106.69	106.49	106.44	106.24	105.75	105.58	105.52	105.49	105.39
3	106.91	106.85	106.68	106.69	106.49	106.43	106.22	105.74	105.57	105.52	105.47	105.37
4	106.93	106.83	106.68	106.67	106.47	106.42	106.22	105.71	105.55	105.53	105.49	105.35
5	106.91	106.83	106.67	106.67	106.47	106.41	106.22	105.70	105.54	105.53	105.47	105.39
6	106.91	106.81	106.67	106.67	106.45	106.40	106.20	105.69	105.51	105.51	105.47	105.43
7	106.91	106.79	106.69	106.67	106.43	106.42	106.18	105.69	105.49	105.51	105.47	105.47
8	106.91	106.83	106.65	106.63	106.41	106.38	106.15	105.69	105.47	105.49	105.45	105.45
9	106.91	106.83	106.63	106.67	106.39	106.39	106.13	105.61	105.45	105.47	105.43	105.43
10	106.93	106.85	106.63	106.69	106.37	106.40	106.14	105.59	105.43	105.45	105.43	105.41
11	107.02	106.83	106.61	106.69	106.37	106.41	106.13	105.53	105.39	105.45	105.41	105.39
12	107.05	106.82	106.69	106.63	106.37	106.42	106.12	105.58	105.39	105.44	105.39	105.37
13	107.03	106.81	106.69	106.62	106.33	106.43	106.10	105.49	105.33	105.41	105.37	105.39
14	107.01	106.78	106.67	106.63	106.43	106.44	106.10	105.47	105.35	105.41	105.35	105.37
15	107.03	106.77	106.77	106.63	106.45	106.45	106.09	105.43	105.49	105.39	105.33	105.35
16	107.03	106.73	106.75	106.61	106.43	106.45	106.08	105.39	105.51	105.39	105.31	105.33
17	107.03	106.73	106.75	106.65	106.41	106.45	106.08	105.37	105.53	105.37	105.29	105.31
18	107.04	106.72	106.75	106.65	106.41	106.43	106.04	105.30	105.57	105.37	105.41	105.31
19	107.04	106.73	106.75	106.64	106.39	106.43	106.02	105.25	105.57	105.35	105.39	105.35
20	107.03	106.74	106.76	106.63	106.39	106.42	105.95	105.22	105.55	105.35	105.37	105.35
21	107.03	106.74	106.76	106.64	106.39	106.42	105.94	105.20	105.54	105.35	105.37	105.33
22	107.01	106.74	106.76	106.64	106.45	106.39	105.94	105.17	105.53	105.37	105.37	105.31
23	107.01	106.73	106.77	106.63	106.47	106.41	105.93	105.20	105.57	105.39	105.35	105.29
24	107.01	106.73	106.77	106.63	106.47	106.41	105.95	105.27	105.59	105.41	105.33	105.27
25	106.99	106.71	106.77	106.59	106.48	106.40	105.93	105.48	105.61	105.53	105.31	105.25
26	106.97	106.71	106.77	106.57	106.47	106.39	105.91	105.53	105.59	105.55	105.37	105.23
27	106.94	106.71	106.68	106.57	106.47	106.38	105.89	105.53	105.57	105.55	105.37	105.21
28	106.91	106.70	106.65	106.57	106.50	106.37	105.88	105.71	105.55	105.53	105.35	105.25
29	106.91	106.69	106.65	106.56	106.49	106.35	105.85	105.66	105.53	105.53	105.33	105.23
30	106.91	106.69	106.75	106.55	---	106.31	105.82	105.66	105.55	105.51	105.31	105.23
31	106.89	---	106.73	106.53	---	106.30	---	105.62	---	105.51	105.41	---
MEAN	106.97	106.77	106.71	106.63	106.44	106.41	106.06	105.52	105.52	105.46	105.39	105.34
MAX	107.05	106.87	106.77	106.71	106.51	106.46	106.31	105.78	105.61	105.55	105.51	105.47
MIN	106.89	106.69	106.61	106.53	106.33	106.30	105.82	105.17	105.33	105.35	105.29	105.21

WTR YR 1984 MEAN 106.10 HIGH 107.05 OCT 12 LOW 105.17 MAY 22

02270550 LAKE JACKSON AT SEBRING, FL

LOCATION.--Lat 27°30'49", long 81°28'33", in NW¼ sec.24, T.34 S., R.28 E., Highlands County, Hydrologic Unit 03090101, on north shore of northwest bay of lake, and 2.4 mi northwest of Sebring.

SURFACE AREA.--3,244 acres (5.07 mi²).

DRAINAGE AREA.--14.0 mi².

PERIOD OF RECORD.--April 1945 to August 1958 (weekly), incomplete; September 1958 to April 1968; May to August 1968 (weekly); September 1968 to September 1975; November 1979 to current year (twice weekly). Prior to October 1957, published as Rex Beach Lake at Sebring. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 90.04 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Sept. 16, 1958, at several sites southeast on east shore of lake at datum 6.27 ft higher; Sept. 16, 1958, to Sept. 30, 1975, at site 0.3 mi southeast at former datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County and is one of the Josephine Creek headwater lakes which drains southward through Josephine Creek and its tributaries into Lake Istokpoga. Since February 1946, outflow from lake controlled by concrete dam at head of Jackson Creek; present control completed in August 1971 with crest at elevation 102.7 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 103.76 ft Sept. 19, 1947; minimum daily, 97.16 ft May 24, 1982. Maximum elevation known, 104.7 ft in 1953 on south side of lake (elevation on north side was about 0.7 ft lower) due to hurricane, observed by location engineer, Florida Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 102.44 ft Oct. 17; minimum daily, 101.30 ft May 21.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	101.92	---	---	---
2	---	102.18	102.06	102.10	---	102.10	102.06	---	---	101.72	---	---
3	102.40	---	---	---	102.02	---	---	---	---	---	102.14	101.92
4	---	102.18	---	---	---	---	---	101.72	101.84	---	---	---
5	---	---	102.04	---	---	102.10	---	---	---	---	---	---
6	---	---	---	102.12	101.98	---	102.06	---	---	101.68	102.12	---
7	102.34	102.22	---	---	---	102.11	---	101.62	---	---	---	101.84
8	---	---	---	---	---	---	---	---	101.78	---	---	---
9	---	---	102.00	102.10	---	102.08	101.96	101.64	---	101.72	---	---
10	102.36	---	---	---	101.92	---	---	---	---	---	102.08	101.82
11	---	102.20	---	---	---	---	---	101.56	101.70	---	---	---
12	---	---	102.12	---	---	102.16	---	---	---	101.72	---	101.80
13	---	---	---	102.06	101.90	---	101.98	---	---	101.70	102.04	---
14	102.42	102.14	---	---	---	---	---	101.50	---	---	---	101.78
15	---	---	---	---	---	---	---	---	101.62	---	---	---
16	---	---	102.14	102.04	---	102.22	102.02	---	---	101.68	---	---
17	102.44	---	---	---	101.92	---	---	---	---	---	101.98	101.78
18	---	102.06	---	---	---	---	---	101.38	101.66	---	---	---
19	---	---	102.14	---	---	102.18	---	---	---	---	---	---
20	---	---	---	102.08	101.88	---	101.96	---	---	101.90	101.94	---
21	102.42	102.12	---	---	---	---	---	101.30	---	---	---	101.74
22	---	---	---	---	---	---	---	---	101.82	---	---	---
23	---	---	102.12	102.10	---	102.24	101.92	---	---	101.96	---	---
24	102.40	---	---	---	102.04	---	---	---	---	---	102.04	101.70
25	---	102.10	---	---	---	---	---	101.60	101.78	---	---	---
26	---	---	102.10	---	---	102.20	---	---	---	---	---	---
27	---	---	---	102.08	102.10	---	101.86	---	---	102.10	101.96	---
28	102.26	102.04	---	---	---	---	---	101.84	---	---	---	101.66
29	---	---	---	---	---	---	---	---	101.76	---	---	---
30	---	---	102.12	102.06	---	102.14	101.78	---	---	102.14	---	---
31	102.22	---	---	---	---	---	---	---	---	---	101.96	---

AVAILABLE

02270650 LAKE JOSEPHINE NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°24'00", long 81°25'10", in SE¼ sec.28, T.35 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on east shore of lake at boat dock, 3 mi southwest of De Soto City, and 6.5 mi southeast of Sebring.

SURFACE AREA.--1,240 acres (1.94 mi²).

DRAINAGE AREA.--46.3 mi².

PERIOD OF RECORD.--December 1946 to July 1955 (weekly), incomplete; August 1955 to September 1975 (weekly); October 1982 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Aug. 19, 1955, nonrecording gage at site on east shore of lake at datum 65.73 ft higher; Aug. 20, 1955, to May 21, 1975, nonrecording gage at site 0.1 mi south at present datum.

REMARKS.--Lake is one of Josephine Creek headwaters chain of lakes at head of Josephine Creek which drains eastward to Lake Istokpoga. Outflow from lake controlled by concrete dam near head of Josephine Creek since April 1965.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 76.80 ft Sept. 26, 1948, from floodmark; minimum daily, 69.09 ft May 29, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 71.43 ft July 24; minimum, 70.79 ft May 18, 19, 22.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.99	70.96	71.01	71.02	71.04	71.11	71.00	70.97	71.12	71.10	71.24	71.08
2	70.99	70.96	71.01	71.02	71.03	71.11	70.99	70.97	71.11	71.08	71.21	71.07
3	71.00	70.96	71.03	71.02	71.02	71.12	71.00	70.96	71.10	71.07	71.21	71.09
4	70.99	70.97	71.03	71.03	71.01	71.12	71.06	70.95	71.08	71.10	71.24	71.09
5	70.99	70.97	71.03	71.03	71.00	71.13	71.09	70.93	71.06	71.10	71.24	71.13
6	70.99	70.96	71.04	71.03	70.98	71.14	71.06	70.93	71.04	71.08	71.23	71.13
7	70.98	70.98	71.03	71.03	70.96	71.16	71.04	70.92	71.02	71.06	71.21	71.11
8	70.97	71.05	71.01	71.04	70.96	71.12	71.02	70.92	71.01	71.08	71.18	71.09
9	70.97	71.06	71.00	71.04	70.96	71.11	71.03	70.91	70.99	71.11	71.16	71.09
10	70.97	71.05	71.00	71.04	70.96	71.09	71.06	70.90	70.98	71.10	71.15	71.07
11	70.97	71.04	71.01	71.05	70.96	71.07	71.04	70.88	70.97	71.09	71.14	71.06
12	70.99	71.02	71.12	71.05	70.96	71.11	71.03	70.87	70.96	71.08	71.13	71.05
13	71.04	71.01	71.12	71.04	70.97	71.33	71.03	70.86	70.96	71.08	71.12	71.04
14	71.05	71.00	71.10	71.03	70.98	71.33	71.03	70.86	70.97	71.08	71.12	71.03
15	71.06	71.00	71.12	71.03	70.99	71.30	71.06	70.86	70.98	71.08	71.11	71.02
16	71.05	71.00	71.11	71.03	71.00	71.29	71.07	70.84	70.98	71.08	71.09	71.01
17	71.04	70.98	71.11	71.04	71.01	71.27	71.06	70.82	70.95	71.08	71.08	71.00
18	71.03	70.97	71.11	71.05	71.01	71.21	71.05	70.80	71.00	71.09	71.06	71.01
19	71.02	70.98	71.09	71.05	71.02	71.18	71.04	70.80	71.07	71.08	71.05	71.01
20	71.01	71.00	71.09	71.04	71.03	71.16	71.03	70.81	71.06	71.10	71.04	71.01
21	71.01	71.03	71.09	71.04	71.04	71.14	71.02	70.81	71.07	71.20	71.06	71.01
22	70.99	71.02	71.08	71.02	71.05	71.11	71.02	70.83	71.14	71.29	71.08	71.00
23	71.00	71.02	71.08	71.03	71.06	71.12	71.04	70.93	71.25	71.32	71.08	71.00
24	71.00	71.02	71.08	71.04	71.08	71.14	71.04	71.02	71.26	71.40	71.09	70.99
25	70.99	71.01	71.04	71.04	71.09	71.14	71.02	71.12	71.25	71.41	71.10	70.97
26	70.98	70.99	71.02	71.05	71.10	71.12	71.00	71.13	71.23	71.38	71.08	70.96
27	70.97	71.00	71.01	71.05	71.10	71.10	70.99	71.14	71.20	71.36	71.07	71.01
28	70.95	71.02	71.01	71.05	71.10	71.11	70.99	71.15	71.17	71.32	71.06	71.14
29	70.95	71.01	71.01	71.05	71.11	71.09	70.98	71.17	71.15	71.28	71.06	71.12
30	70.95	71.01	71.02	71.05	---	71.02	70.98	71.18	71.13	71.26	71.05	71.11
31	70.95	---	71.02	71.05	---	71.00	---	71.15	---	71.25	71.09	---
MEAN	70.99	71.00	71.05	71.04	71.02	71.15	71.03	70.95	71.08	71.17	71.12	71.05
MAX	71.06	71.06	71.12	71.05	71.11	71.33	71.09	71.18	71.26	71.41	71.24	71.14
MIN	70.95	70.96	71.00	71.02	70.96	71.00	70.98	70.80	70.95	71.06	71.04	70.96

WTR YR 1984 MEAN 71.05 HIGH 71.41 JUL 25 LOW 70.80 MAY 18 AND OTHERS

02270750 LAKE PLACID NEAR LAKE PLACID, FL

LOCATION.--Lat 27°15'37", long 81°22'18", in NE¼ sec.13, T.37 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on northwest shore of lake, on private dock, 0.7 mi northeast of head of Placid-June Canal, and 2.8 mi south of town of Lake Placid.

SURFACE AREA.--3,381 acres (5.28 mi²).

DRAINAGE AREA.--20.2 mi².

PERIOD OF RECORD.--April 1945 to December 1952 (weekly), incomplete; January 1953 to September 1975; October 1979 to current year (twice weekly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 79.66 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Jan. 14, 1953, nonrecording gage at same site at present datum; Jan. 14, 1953, to Nov. 28, 1973, water-stage recorder at same site at present datum; Nov. 28, 1973, to Sept. 30, 1975, water-stage recorder at same site at datum 79.66 ft lower; Sept. 30, 1975, to Apr. 17, 1981, at site 0.2 mi northeast at present datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County, and is one of the Lake Placid west chain of lakes which drains northward into Josephine Creek. Outflow from lake is to Lake June-in-Winter (west chain) to Lake Huntley (east chain), and to Mirror Lake (no surface outlet).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 96.0 ft (estimated) Sept. 11, 12, 1960; minimum daily, 88.95 ft Mar. 26, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 93.38 ft Aug. 24; minimum daily, 91.78 ft May 21.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	92.02	---	---	---
2	---	---	---	92.14	---	91.92	92.34	---	---	92.16	---	---
3	92.66	92.54	---	---	91.94	---	---	---	---	---	---	93.30
4	---	92.52	---	---	---	---	---	92.12	91.96	---	---	---
5	---	---	---	---	---	91.90	---	---	---	---	---	---
6	---	---	---	92.10	91.92	---	92.30	---	---	92.36	---	---
7	92.62	92.48	---	---	---	91.90	---	92.08	---	---	---	93.26
8	---	---	---	---	---	---	---	---	91.86	---	---	---
9	---	---	92.24	92.06	---	91.86	92.26	92.07	---	92.36	---	---
10	92.58	---	---	---	91.84	---	---	---	---	---	93.30	93.22
11	---	92.54	---	---	---	---	---	92.02	91.84	---	---	---
12	---	---	92.26	92.04	---	91.84	---	---	---	92.41	---	---
13	---	---	---	92.04	91.80	---	92.26	---	---	92.38	93.28	93.17
14	92.66	92.46	---	---	---	---	---	91.96	---	---	---	93.16
15	---	---	---	---	---	---	---	---	91.82	---	---	---
16	---	---	92.24	92.02	---	92.36	92.32	---	---	92.48	---	---
17	92.72	---	---	---	91.82	---	---	---	---	---	93.20	93.12
18	---	92.40	---	---	---	---	---	91.86	91.86	---	---	---
19	---	---	92.24	---	---	92.34	---	---	---	---	---	---
20	---	---	---	92.02	91.80	---	92.28	---	---	92.66	93.28	---
21	92.66	92.42	---	---	---	---	---	91.78	---	---	93.27	93.06
22	---	---	---	---	---	---	---	---	91.96	---	---	---
23	---	---	92.22	92.02	---	92.34	92.26	---	---	93.06	---	---
24	92.72	---	---	---	91.96	---	---	---	---	---	93.38	93.02
25	---	92.36	---	---	---	---	---	91.92	92.10	---	---	---
26	---	---	92.14	---	---	92.44	---	---	---	---	---	---
27	---	---	---	92.00	91.94	---	92.20	---	---	---	93.36	---
28	92.62	92.34	---	---	---	---	---	91.96	---	---	---	93.02
29	---	---	---	---	---	---	---	---	92.16	---	---	---
30	---	---	92.16	92.00	---	92.40	92.16	---	---	---	---	---
31	92.54	---	---	---	---	---	---	---	---	---	93.34	---

02270950 LAKE JUNE-IN-WINTER NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'19", long 81°25'08", in NE¼ sec.28, T.36 S., R.29 E., Highlands County, Hydrologic Unit 03090101, near northwest bay of lake, at boat pier, 150 ft east of Stearns Creek, and 3.6 mi northwest of town of Lake Placid.

SURFACE AREA.--3,662 acres (5.72 mi²).

DRAINAGE AREA.--44.0 mi².

PERIOD OF RECORD.--April 1945 to December 1952 (weekly); January 1953 to January 1968; February 1968 to August 1980 (weekly); August 1980 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey. May 1955 to January 1968, records for Stearns Creek near Lake Placid (station 02271000).

GAGE.--Water-stage recorder. Datum of gage is 65.38 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark); gage readings have been reduced to elevations NGVD. Prior to Jan. 20, 1953, nonrecording gage and Jan. 20, 1953, to May 23, 1955, water-stage recorder at site on southeast shore of lake on private pier at same datum; May 24, 1955, to Jan. 24, 1968, water-stage recorder on Stearns Creek 250 ft downstream from Lake June-in-Winter at same datum; February 1968 to Aug. 11, 1980, nonrecording gage at same datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County and is one of the Lake Placid west chain of lakes which drain northward into Josephine Creek. From Mar. 23, 1955, to Feb. 26, 1968, lake level controlled by a 10-bay sheet-pile stoplog control in Stearns Creek. Subsequent to Feb. 26, 1968, lake level controlled by a 1-culvert stoplog structure 0.6 mi downstream on Stearns Creek and a 3-culvert stoplog structure 1.6 mi downstream on Stearns Creek Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 77.58 ft Oct. 6, 1948; minimum, 71.62 ft May 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 75.36 ft Mar. 13, 14; minimum, 74.06 ft Sept. 27.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.68	74.74	74.73	74.83	74.82	74.95	74.78	74.50	74.50	74.23	74.28	74.23
2	74.68	74.73	74.73	74.82	74.81	74.94	74.77	74.49	74.48	74.22	74.24	74.23
3	74.66	74.72	74.73	74.83	74.81	74.94	74.75	74.47	74.46	74.23	74.19	74.23
4	74.65	74.71	74.74	74.82	74.81	74.94	74.75	74.44	74.46	74.32	74.18	74.24
5	74.64	74.71	74.74	74.81	74.80	74.94	74.72	74.43	74.44	74.32	74.18	74.25
6	74.62	74.71	74.74	74.82	74.78	74.94	74.70	74.44	74.43	74.34	74.18	74.25
7	74.63	74.72	74.75	74.81	74.77	74.93	74.69	74.45	74.39	74.32	74.22	74.28
8	74.62	74.77	74.73	74.81	74.76	74.91	74.68	74.42	74.36	74.30	74.22	74.25
9	74.61	74.78	74.72	74.81	74.75	74.90	74.68	74.41	74.33	74.27	74.21	74.23
10	74.62	74.78	74.71	74.82	74.75	74.89	74.68	74.39	74.30	74.24	74.21	74.23
11	74.62	74.77	74.72	74.82	74.75	74.88	74.67	74.36	74.28	74.21	74.19	74.23
12	74.71	74.76	74.76	74.82	74.75	74.95	74.67	74.31	74.25	74.18	74.23	74.23
13	74.71	74.76	74.77	74.81	74.76	75.33	74.67	74.29	74.23	74.18	74.23	74.24
14	74.72	74.75	74.78	74.81	74.79	75.34	74.66	74.31	74.21	74.21	74.23	74.23
15	74.76	74.75	74.78	74.81	74.79	75.32	74.72	74.29	74.23	74.23	74.22	74.22
16	74.78	74.74	74.78	74.82	74.79	75.28	74.71	74.28	74.21	74.22	74.21	74.21
17	74.80	74.73	74.79	74.83	74.79	75.24	74.70	74.25	74.21	74.22	74.21	74.21
18	74.82	74.72	74.80	74.84	74.79	75.21	74.69	74.22	74.22	74.19	74.23	74.21
19	74.82	74.72	74.80	74.84	74.79	75.17	74.68	74.19	74.21	74.18	74.22	74.21
20	74.81	74.74	74.81	74.85	74.79	75.13	74.67	74.18	74.19	74.22	74.21	74.20
21	74.81	74.76	74.81	74.84	74.79	75.06	74.66	74.17	74.17	74.34	74.21	74.19
22	74.81	74.76	74.81	74.84	74.87	75.02	74.65	74.18	74.20	74.41	74.23	74.21
23	74.83	74.77	74.82	74.85	74.96	75.03	74.64	74.29	74.26	74.48	74.24	74.19
24	74.84	74.77	74.79	74.85	74.96	75.04	74.61	74.35	74.27	74.48	74.25	74.17
25	74.83	74.76	74.76	74.86	74.96	75.01	74.59	74.46	74.27	74.48	74.25	74.15
26	74.81	74.76	74.73	74.86	74.96	74.96	74.59	74.48	74.26	74.50	74.25	74.13
27	74.79	74.76	74.72	74.87	74.97	74.94	74.57	74.50	74.28	74.47	74.24	74.12
28	74.77	74.76	74.73	74.87	74.97	74.90	74.55	74.53	74.27	74.43	74.22	74.20
29	74.75	74.75	74.76	74.86	74.96	74.83	74.54	74.54	74.26	74.39	74.21	74.20
30	74.75	74.73	74.84	74.85	---	74.82	74.52	74.54	74.24	74.34	74.22	74.24
31	74.74	---	74.84	74.84	---	74.79	---	74.53	---	74.32	74.23	---
MEAN	74.73	74.75	74.77	74.83	74.83	75.02	74.67	74.38	74.30	74.31	74.22	74.21
MAX	74.84	74.78	74.84	74.87	74.97	75.34	74.78	74.54	74.50	74.50	74.28	74.28
MIN	74.61	74.71	74.71	74.81	74.75	74.79	74.52	74.17	74.17	74.18	74.18	74.12

WTR YR 1984 MEAN 74.58 HIGH 75.34 MAR 14 LOW 74.12 SEP 27

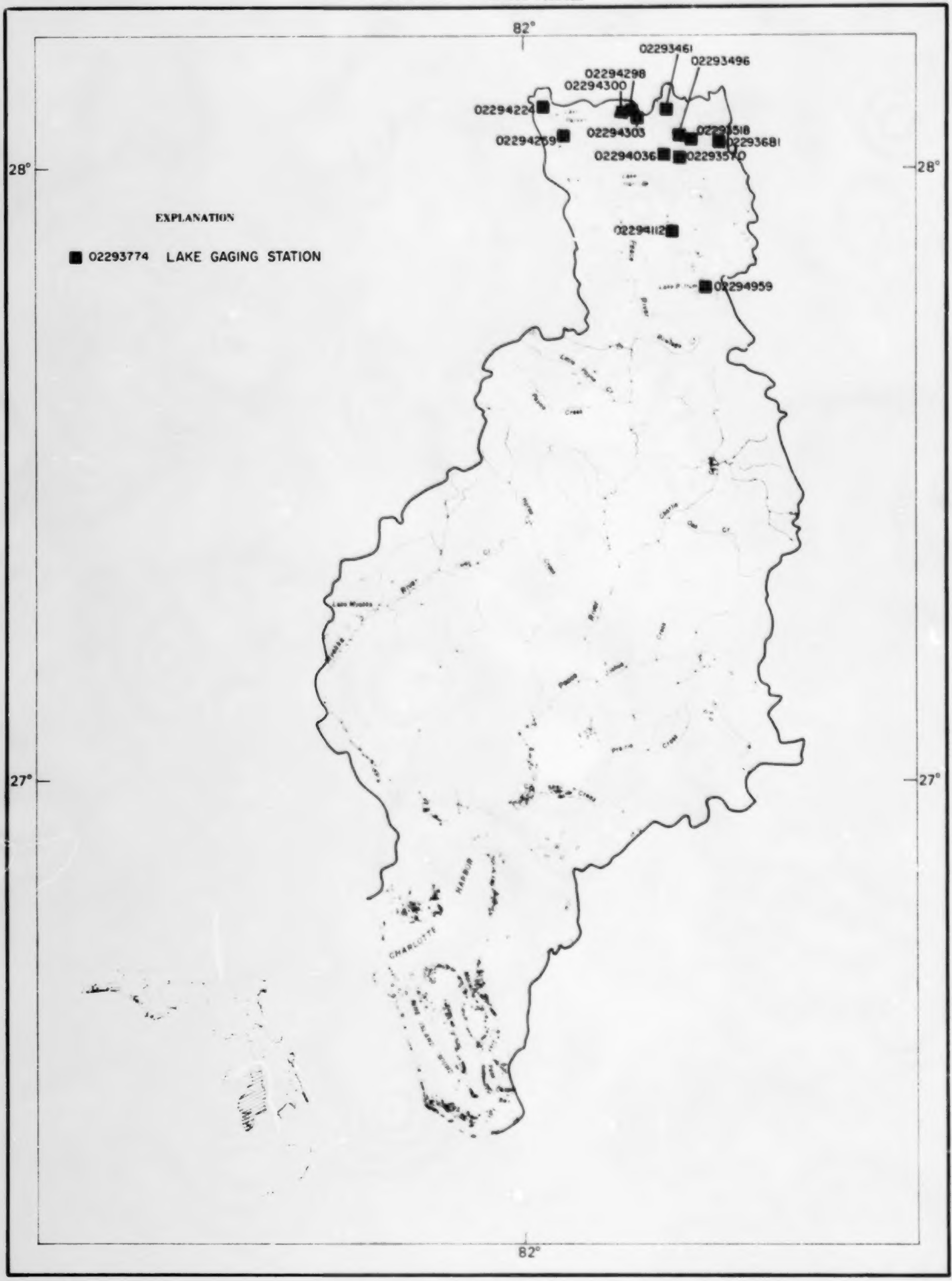

Figure 10. Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and coastal area.

PEACE RIVER BASIN

02293461 LAKE ALFRED AT LAKE ALFRED, FL

LOCATION.--Lat 28°05'41", long 81°44'06", in NW¼ sec.32, T.27 S., R.26 E., Polk County, Hydrologic Unit 03100101, on east shore of lake in town of Lake Alfred.

SURFACE AREA.--736 acres (1.15 mi^2).

DRAINAGE AREA.--2.93 mi^2.

PERIOD OF RECORD.--March 1961 to September 1962; September 1969 to August 1975 (twice weekly); September 1975 to September 1983 (weekly), incomplete; October 1983 to September 1984 (fragmentary).

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Feb. 24, 1981, at several sites and datums within 0.2 mi.

REMARKS.--Lake is one of a group of lakes in the southern part of an extensive area of swampy flatlands and sandy ridges at a relatively high elevation, called the Green Swamp. Streams that flow into five major drainage systems originate in or near the Green Swamp area.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 132.08 ft Mar. 30, Apr. 2-4, 1961; minimum observed, 122.40 ft May 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 128.67 ft Mar. 19; minimum observed, 127.90 ft June 7.

ELEVATION, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ELEVATION ABOVE NGVD (FEET)	DATE	ELEVATION ABOVE NGVD (FEET)
OCT		MAR	
11...	128.07	19...	128.67
NOV		JUN	
29...	128.03	7...	127.90
JAN		AUG	
25...	128.49	3...	127.98

PEACE RIVER BASIN

02293496 LAKE SMART NEAR FLORENCE VILLA, FL

LOCATION.--Lat 28°03'08", long 81°42'38", in NW¼ sec.15, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on south shore of lake, 0.4 mi southwest of Smart-Fannie Canal, 0.6 mi north of junction Avenue T NE and 11th Street NE, and 1.2 mi northeast of Florence Villa.

SURFACE AREA.--279 acres (0.44 mi^2).

DRAINAGE AREA.--17.9 mi^2.

PERIOD OF RECORD.--March 1946 to June 1948; February 1951 to January 1954 (fragmentary); April 1966 to January 1980; February 1980 to current year (twice weekly), incomplete. Records of elevations prior to April 1966 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark); gage readings have been reduced to elevations NGVD. Prior to January 1954, periodic stage observations at site 500 ft east at same datum. Apr. 26, 1966, to Apr. 26, 1967, water-stage recorder on Smart-Fannie Canal at structure P-6, 0.2 mi downstream from outlet of Lake Smart at same datum; Apr. 26, 1967, to Jan. 31, 1980, water-stage recorder at present site at same datum.

REMARKS.--Lake is in headwaters of Peace River and is connected by outlet to Lake Fannie. Since Nov. 8, 1965, lake level controlled by structure P-6.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 129.32 ft Aug. 25, 1966 (affected by wind); minimum daily, 125.82 ft July 7, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 128.34 ft Dec. 15; minimum daily, 127.28 ft June 12.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	128.18	---	---	---	---	---	127.48	---	---	---
2	---	128.19	---	128.32	---	---	---	---	---	---	127.64	127.76
3	---	---	---	---	---	---	128.02	127.64	---	---	---	---
4	128.10	---	---	---	---	---	---	---	127.48	127.50	---	---
5	128.11	---	128.20	128.28	128.14	128.19	128.06	---	---	---	127.65	---
6	---	---	---	---	---	---	---	127.60	---	---	---	127.88
7	---	128.20	128.20	---	---	---	---	---	---	127.47	---	---
8	---	---	---	---	128.02	128.16	---	---	127.34	---	127.65	---
9	---	128.20	---	128.20	---	---	---	---	---	127.46	127.63	127.86
10	128.16	---	---	---	---	---	127.98	127.56	---	---	---	---
11	---	---	---	---	---	128.16	---	---	---	---	---	---
12	---	---	128.32	---	128.02	---	127.96	---	127.28	---	127.66	---
13	---	---	---	128.26	---	---	---	---	---	127.42	---	127.86
14	---	128.15	---	---	---	---	---	127.50	---	---	---	---
15	---	---	128.34	---	---	128.16	---	---	127.38	---	---	---
16	---	128.14	---	128.23	128.18	---	127.90	---	---	---	127.63	127.80
17	128.32	---	---	---	---	---	---	---	127.39	---	---	---
18	---	---	---	---	---	---	---	127.43	---	---	---	---
19	128.32	128.21	128.26	128.22	128.14	128.14	127.88	---	---	127.50	127.64	---
20	---	---	---	---	---	---	---	---	---	---	---	127.98
21	---	---	128.29	---	---	128.16	---	---	127.39	---	---	---
22	---	128.22	---	---	128.26	---	---	---	---	127.54	---	---
23	---	---	---	---	---	---	---	127.38	---	---	---	---
24	128.31	---	---	128.26	---	---	127.76	---	---	---	127.62	127.94
25	---	---	---	---	---	128.12	---	---	---	---	---	---
26	128.26	128.22	128.22	---	128.24	---	127.74	---	---	127.54	127.75	---
27	---	---	---	128.24	---	---	---	---	127.32	---	---	128.06
28	---	128.22	128.20	---	---	128.13	---	---	---	---	---	---
29	---	---	---	---	128.22	128.12	---	127.53	---	127.59	---	---
30	---	---	---	128.21	---	---	127.70	---	127.29	---	127.74	128.05
31	128.20	---	---	---	---	---	---	---	---	---	---	---

PEACE RIVER BASIN

02293518 LAKE FANNIE NEAR FLORENCE VILLA, FL

LOCATION.--Lat 28°03'08", long 81°41'06", in NE¼ sec.14, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on east shore of lake, 0.2 mi north of outlet of lake, 0.4 mi north of Buckeye Road, and 2.6 mi east of Florence Villa.

SURFACE AREA.--833 acres (1.30 mi²).

DRAINAGE AREA.--24.7 mi².

PERIOD OF RECORD.--April 1967 to current year. Records for April to September 1966, published in WDR FL 1967 are in error and should not be used.

REVISED RECORDS.--WRD FL 1969: 1967, 1968(M). WRD FL 1972: 1970, 1971(M), gage datum. WRD FL-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Feb. 11, 1976, at site 0.8 mi southwest at datum 20.00 ft higher.

REMARKS.--Lake is in a chain of lakes in the headwaters of Peace River. There are numerous concrete structures controlling lake levels.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 125.98 ft Mar. 17, 1983; minimum, 118.51 ft May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 125.66 ft Jan. 3, 4, 5, 6 (estimated); minimum, 124.07 ft June 13.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125.07	125.05	124.99	125.58	125.12	125.31	125.05	124.65	124.32	124.19	124.30	124.64
2	125.06	125.04	124.99	125.62	125.13	125.29	125.03	124.63	124.30	124.19	124.34	124.63
3	125.05	125.03	124.98	125.66	125.15	125.25	125.01	124.60	124.28	124.29	124.35	124.63
4	125.04	125.03	124.98	125.66	125.17	125.23	125.07	124.57	124.26	124.39	124.36	124.63
5	125.03	125.02	124.98	125.66	125.19	125.21	125.10	124.55	124.24	124.39	124.36	124.65
6	125.02	125.02	124.99	125.66	125.19	125.19	125.07	124.54	124.22	124.40	124.37	124.66
7	125.01	125.02	125.03	125.65	125.19	125.21	125.05	124.52	124.20	124.41	124.41	124.65
8	125.01	125.03	125.01	125.65	125.19	125.19	125.03	124.50	124.17	124.41	124.42	124.63
9	125.07	125.03	124.99	125.65	125.19	125.18	125.03	124.50	124.15	124.40	124.40	124.62
10	125.07	125.03	124.98	125.64	125.20	125.17	125.03	124.48	124.13	124.40	124.40	124.62
11	125.11	125.02	124.97	125.64	125.22	125.15	125.02	124.45	124.11	124.40	124.39	124.62
12	125.14	125.01	125.10	125.64	125.23	125.15	125.00	124.42	124.09	124.38	124.40	124.61
13	125.18	124.99	125.12	125.60	125.30	125.20	124.99	124.40	124.09	124.37	124.41	124.60
14	125.18	124.98	125.11	125.55	125.40	125.20	124.98	124.39	124.18	124.36	124.41	124.59
15	125.18	124.97	125.18	125.48	125.41	125.19	124.98	124.37	124.18	124.38	124.41	124.56
16	125.19	124.97	125.21	125.42	125.43	125.18	124.98	124.34	124.19	124.45	124.39	124.54
17	125.21	124.96	125.28	125.36	125.45	125.17	124.95	124.31	124.18	124.50	124.38	124.52
18	125.21	124.95	125.33	125.30	125.45	125.16	124.93	124.27	124.18	124.52	124.38	124.53
19	125.20	124.93	125.36	125.25	125.47	125.14	124.91	124.25	124.18	124.51	124.40	124.59
20	125.20	124.97	125.42	125.20	125.48	125.13	124.89	124.22	124.17	124.51	124.42	124.60
21	125.19	125.04	125.43	125.15	125.48	125.16	124.86	124.22	124.15	124.47	124.43	124.64
22	125.18	125.04	125.45	125.09	125.48	125.14	124.84	124.21	124.15	124.43	124.43	124.63
23	125.18	125.03	125.46	125.04	125.49	125.13	124.81	124.25	124.17	124.45	124.41	124.62
24	125.18	125.03	125.47	125.00	125.45	125.13	124.78	124.29	124.17	124.43	124.40	124.60
25	125.16	125.04	125.46	125.00	125.42	125.13	124.76	124.38	124.16	124.40	124.42	124.58
26	125.14	125.02	125.43	125.01	125.39	125.13	124.74	124.37	124.15	124.39	124.60	124.56
27	125.12	125.01	125.42	125.06	125.37	125.14	124.72	124.37	124.14	124.39	124.67	124.58
28	125.10	125.01	125.41	125.08	125.39	125.13	124.71	124.37	124.12	124.34	124.66	124.68
29	125.08	125.00	125.45	125.09	125.35	125.13	124.69	124.37	124.11	124.29	124.66	124.68
30	125.07	124.99	125.50	125.10	---	125.08	124.67	124.37	124.14	124.26	124.65	124.67
31	125.06	---	125.54	125.12	---	125.06	---	124.35	---	124.27	124.64	---
MEAN	125.12	125.01	125.23	125.37	125.32	125.17	124.92	124.40	124.18	124.39	124.44	124.61
MAX	125.21	125.05	125.54	125.66	125.49	125.31	125.10	124.65	124.32	124.52	124.67	124.68
MIN	125.01	124.93	124.97	125.00	125.12	125.06	124.67	124.21	124.09	124.19	124.30	124.52

WTR YR 1984 MEAN 124.85 HIGH 125.66 JAN 3 AND OTHERS LOW 124.09 JUN 12 AND OTHERS

NOTE.--Record estimated Dec. 31 to Jan. 14.

02293670 LAKE OTIS AT WINTER HAVEN, FL

LOCATION.--Lat 28°01'00", long 81°42'52", in SE¼ sec.28, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on west shore of lake, and 1.0 mi east of Winter Haven.

SURFACE AREA.--144 acres (0.22 mi²).

DRAINAGE AREA.--1.00 mi².

PERIOD OF RECORD.--August 1954 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Water-stage recorder. Datum of gage is 120.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Apr. 5, 1974, at sites on northeast shore of lake, 1,800 ft northeast at same datum.

REMARKS.--Lake is one of the Peace River headwater lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 129.18 ft Sept. 10, 1960; minimum, 119.56 ft May 15, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 127.98 ft Dec. 29, 30, 31; minimum, 125.96 ft June 29, 30.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127.85	127.70	127.50	127.95	127.91	127.91	127.64	127.14	126.42	126.00	126.32	126.66
2	127.84	127.68	127.50	127.94	127.90	127.89	127.63	127.11	126.40	126.00	126.33	126.66
3	127.83	127.66	127.49	127.94	127.89	127.88	127.60	127.07	126.36	126.08	126.32	126.66
4	127.80	127.65	127.49	127.93	127.89	127.87	127.63	127.04	126.34	126.14	126.31	126.65
5	127.78	127.63	127.49	127.92	127.88	127.86	127.63	126.99	126.31	126.16	126.32	126.70
6	127.77	127.63	127.49	127.92	127.86	127.86	127.60	126.95	126.28	126.16	126.39	126.72
7	127.76	127.63	127.53	127.91	127.83	127.86	127.59	126.94	126.25	126.15	126.38	126.70
8	127.75	127.64	127.51	127.90	127.81	127.84	127.57	126.91	126.22	126.15	126.37	126.68
9	127.78	127.63	127.49	127.89	127.79	127.83	127.56	126.89	126.18	126.13	126.36	126.66
10	127.77	127.63	127.48	127.92	127.78	127.81	127.55	126.86	126.15	126.13	126.35	126.65
11	127.78	127.63	127.47	127.95	127.77	127.79	127.53	126.82	126.11	126.14	126.37	126.64
12	127.81	127.61	127.63	127.94	127.77	127.77	127.52	126.79	126.07	126.12	126.40	126.63
13	127.87	127.59	127.67	127.94	127.81	127.84	127.50	126.75	126.04	126.11	126.39	126.61
14	127.86	127.57	127.65	127.94	127.89	127.83	127.49	126.71	126.02	126.10	126.38	126.59
15	127.86	127.56	127.68	127.94	127.89	127.81	127.51	126.68	126.00	126.12	126.37	126.57
16	127.87	127.54	127.69	127.94	127.88	127.79	127.50	126.65	125.99	126.20	126.35	126.55
17	127.89	127.52	127.75	127.94	127.87	127.78	127.48	126.60	125.99	126.20	126.33	126.53
18	127.90	127.50	127.78	127.94	127.86	127.76	127.46	126.56	126.02	126.19	126.32	126.56
19	127.89	127.48	127.78	127.96	127.86	127.75	127.44	126.52	126.08	126.17	126.31	126.70
20	127.88	127.51	127.81	127.96	127.86	127.74	127.43	126.47	126.06	126.17	126.35	126.69
21	127.87	127.58	127.81	127.97	127.87	127.74	127.41	126.45	126.04	126.16	126.38	126.68
22	127.86	127.57	127.81	127.95	127.96	127.73	127.39	126.45	126.01	126.15	126.38	126.67
23	127.85	127.57	127.81	127.95	127.97	127.72	127.37	126.51	126.01	126.17	126.36	126.65
24	127.84	127.56	127.81	127.96	127.96	127.72	127.35	126.51	126.00	126.18	126.35	126.63
25	127.82	127.56	127.79	127.96	127.95	127.72	127.32	126.53	125.99	126.22	126.39	126.60
26	127.80	127.54	127.77	127.96	127.94	127.71	127.30	126.51	125.98	126.29	126.72	126.58
27	127.77	127.53	127.75	127.96	127.94	127.73	127.27	126.49	125.98	126.29	126.72	126.60
28	127.74	127.53	127.74	127.96	127.96	127.73	127.24	126.48	125.97	126.28	126.70	126.70
29	127.73	127.51	127.84	127.95	127.94	127.71	127.20	126.48	125.96	126.26	126.69	126.69
30	127.73	127.51	127.98	127.94	---	127.69	127.17	126.46	125.98	126.26	126.68	126.68
31	127.71	---	127.97	127.93	---	127.66	---	126.44	---	126.27	126.67	---
MEAN	127.81	127.58	127.68	127.94	127.88	127.78	127.46	126.70	126.11	126.17	126.42	126.64
MAX	127.90	127.70	127.98	127.97	127.97	127.91	127.64	127.14	126.42	126.29	126.72	126.72
MIN	127.71	127.48	127.47	127.89	127.77	127.66	127.17	126.44	125.96	126.00	126.31	126.53

WTR YR 1984 MEAN 127.18 HIGH 127.98 DEC 30 LOW 125.96 JUN 29

02293681 LAKE HAMILTON NEAR LAKE HAMILTON, FL

LOCATION.--Lat 28°01'54", long 81°38'42", in SE¼ sec.19, T.28 S., R.27 E., Polk County, Hydrologic Unit 03100101, on right bank of Lake Hamilton Outlet, 100 ft upstream from control structure P-8, 0.2 mi downstream from lake, 1.2 mi southwest of town of Lake Hamilton, and 1.3 mi northwest of Dundee.

SURFACE AREA.--2,170 acres (3.39 mi^2).

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--June 1945 to January 1963 (weekly), incomplete; February 1963 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey. Since February 1963, records for Lake Hamilton Outlet at structure P-8, near Lake Hamilton.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Water-stage recorder. Datum of gage is 115.00 ft National Geodetic Vertical Datum of 1929 (Peace River Valley Water Conservation and Drainage District reference mark); gage readings have been reduced to elevations NGVD. See WDR FL-75-3 for history of changes prior to Mar. 20, 1975.

REMARKS.--Lake is in headwaters of Peace River and is connected by outlet to Peace Creek drainage canal. Since July 20, 1962, lake level controlled by structure P-8. Prior to July 20, 1962, lake level partly controlled by a concrete dam with removable boards in former outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 124.34 ft Oct. 3, 1948; minimun elevation, 116.89 ft June 1, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 121.27 ft Dec. 30, 31; minimum, 119.93 ft June 30.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120.89	120.90	120.88	121.24	120.93	120.98	120.71	120.58	120.24	120.01	120.29	120.15
2	120.88	120.89	120.87	121.21	120.91	120.94	120.69	120.56	120.22	120.01	120.26	120.14
3	120.87	120.89	120.86	121.18	120.89	120.91	120.68	120.51	120.21	120.10	120.24	120.12
4	120.86	120.88	120.87	121.15	120.89	120.88	120.74	120.49	120.19	120.23	120.21	120.11
5	120.85	120.88	120.87	121.12	120.89	120.86	120.80	120.48	120.17	120.25	120.19	120.14
6	120.85	120.88	120.87	121.09	120.89	120.84	120.80	120.46	120.15	120.25	120.18	120.16
7	120.85	120.88	120.91	121.06	120.86	120.84	120.80	120.45	120.13	120.23	120.24	120.14
8	120.85	120.89	120.88	121.03	120.85	120.84	120.80	120.43	120.11	120.22	120.22	120.12
9	120.93	120.89	120.87	121.00	120.84	120.84	120.83	120.44	120.09	120.21	120.21	120.11
10	120.93	120.89	120.66	121.01	120.83	120.83	120.88	120.41	120.07	120.19	120.19	120.10
11	120.96	120.89	120.86	121.02	120.83	120.82	120.89	120.38	120.05	120.18	120.18	120.08
12	120.98	120.88	120.99	121.01	120.84	120.82	120.89	120.35	120.03	120.16	120.17	120.07
13	120.99	120.86	121.00	121.01	120.89	120.87	120.89	120.33	120.03	120.18	120.16	120.06
14	120.99	120.85	121.00	120.99	120.94	120.87	120.90	120.32	120.04	120.15	120.15	120.04
15	121.01	120.83	121.09	120.96	120.95	120.86	120.90	120.31	120.04	120.16	120.14	120.03
16	121.01	120.85	121.07	120.94	120.94	120.85	120.91	120.28	120.06	120.21	120.13	120.01
17	121.01	120.83	121.14	120.93	120.95	120.85	120.88	120.24	120.05	120.20	120.12	120.00
18	121.01	120.81	121.14	120.94	120.95	120.84	120.87	120.22	120.05	120.18	120.10	120.00
19	121.01	120.80	121.14	120.98	120.95	120.82	120.84	120.18	120.04	120.15	120.11	120.18
20	121.01	120.82	121.13	121.00	120.96	120.80	120.81	120.17	120.03	120.16	120.13	120.18
21	121.01	120.90	121.10	121.03	120.99	120.83	120.79	120.16	120.02	120.15	120.16	120.16
22	121.00	120.90	121.08	121.01	121.15	120.80	120.76	120.16	120.01	120.15	120.14	120.15
23	121.00	120.89	121.08	121.01	121.20	120.80	120.73	120.19	120.04	120.20	120.13	120.14
24	121.00	120.89	121.09	121.01	121.18	120.81	120.72	120.23	120.03	120.20	120.13	120.12
25	121.00	120.90	121.05	121.02	121.15	120.80	120.69	120.28	120.02	120.22	120.14	120.11
26	120.98	120.88	121.00	121.02	121.11	120.81	120.66	120.27	120.00	120.25	120.23	120.10
27	120.96	120.88	120.97	121.03	121.06	120.81	120.64	120.27	119.99	120.25	120.22	120.14
28	120.93	120.88	120.97	121.02	121.08	120.78	120.63	120.28	119.97	120.24	120.20	120.18
29	120.92	120.88	121.11	120.99	121.05	120.79	120.62	120.30	119.97	120.22	120.19	120.20
30	120.91	120.88	121.24	120.97	---	120.76	120.60	120.30	119.99	120.21	120.17	120.19
31	120.91	---	121.25	120.96	---	120.73	---	120.28	---	120.26	120.17	---
MEAN	120.95	120.87	121.01	121.03	120.96	120.83	120.78	120.33	120.07	120.19	120.18	120.11
MAX	121.01	120.90	121.25	121.24	121.20	120.98	120.91	120.58	120.24	120.26	120.29	120.20
MIN	120.85	120.80	120.86	120.93	120.83	120.73	120.60	120.16	119.97	120.01	120.10	120.00

WTR YR 1984 MEAN 120.61 HIGH 121.25 DLC 31 LOW 119.97 JUN 28 AND OTHERS

PEACE RIVER BASIN

02294036 LAKE HOWARD AT WINTER HAVEN, FL

LOCATION.--Lat 28°00'58", long 81°44'22", in SW¼ sec.29, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on southeast shore of lake, on private dock at Winter Haven.

SURFACE AREA.--634 acres (0.99 mi^2).

DRAINAGE AREA.--12.8 mi^2.

PERIOD OF RECORD.--April 1945 to February 1946 (fragmentary); March 1946 to current year (incomplete). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Water-stage recorder. Datum of gage is 120.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Feb. 14, 1946, nonrecording gage at datum 7.85 ft higher; Feb. 14, 1946, to May 7, 1971, water-stage recorder at same datum; May 7, 1971, to July 25, 1972, nonrecording gage at same datum. Prior to July 25, 1972, at site 2,200 ft north of present site.

REMARKS.--Lake is in the Winter Haven chain of lakes which is controlled by a concrete dam with removable boards at the outlet of Lake Lulu.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 133.19 ft Sept. 11, 1960 (affected by wind); minimum, 128.28 ft May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 131.93 ft Dec. 30; minimum, 130.64 ft June 13.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131.55	131.44	131.37	131.84	131.64	131.68	131.45	131.18	130.90	131.05	131.42	131.54
2	131.54	131.43	131.36	131.82	131.62	131.67	131.44	131.16	130.88	131.05	131.42	131.55
3	131.53	131.41	131.36	131.81	131.62	131.66	131.43	131.14	130.87	131.12	131.40	131.55
4	131.51	131.40	131.36	131.80	131.62	131.65	131.48	131.12	130.85	131.19	131.39	131.55
5	131.51	131.41	131.37	131.79	131.60	131.65	131.48	131.10	130.83	131.23	131.41	131.69
6	131.49	131.40	131.38	131.78	131.59	131.64	131.45	131.09	130.82	131.27	131.51	131.72
7	131.48	131.41	131.43	131.77	131.56	131.64	131.43	131.12	130.79	131.27	131.50	131.68
8	131.49	131.43	131.40	131.76	131.55	131.61	131.42	131.11	130.77	131.27	131.52	131.65
9	131.56	131.42	131.39	131.75	131.54	131.59	131.43	131.11	130.74	131.26	131.50	131.61
10	131.54	131.42	131.38	131.78	131.53	131.58	131.43	131.10	130.72	131.25	131.48	131.59
11	131.57	131.41	131.38	131.79	131.53	131.57	131.41	131.07	130.70	131.24	131.47	131.58
12	131.59	131.38	131.53	131.78	131.54	131.57	131.40	131.05	130.68	131.22	131.50	131.57
13	131.64	131.37	131.54	131.77	131.61	131.65	131.40	131.03	130.66	131.22	131.50	131.55
14	131.63	131.36	131.53	131.76	131.70	131.64	131.40	131.01	130.69	131.22	131.49	131.54
15	131.64	131.35	131.59	131.74	131.68	131.63	131.41	130.99	130.68	131.24	131.48	131.53
16	131.64	131.34	131.60	131.74	131.69	131.61	131.40	130.98	130.68	131.30	131.46	131.50
17	131.65	131.31	131.66	131.74	131.66	131.60	131.38	130.94	130.71	131.32	131.44	131.48
18	131.67	131.30	131.71	131.73	131.66	131.59	131.36	130.91	130.85	131.31	131.43	131.52
19	131.65	131.29	131.73	131.75	131.66	131.58	131.35	130.88	131.00	131.30	131.44	131.66
20	131.64	131.34	131.76	131.75	131.66	131.58	131.34	130.86	130.97	131.31	131.46	131.63
21	131.63	131.41	131.75	131.74	131.67	131.58	131.34	130.86	130.98	131.31	131.47	131.61
22	131.61	131.40	131.75	131.72	131.79	131.55	131.33	130.88	130.97	131.31	131.46	131.59
23	131.60	131.40	131.75	131.72	131.79	131.55	131.31	130.93	130.98	131.32	131.44	131.57
24	131.59	131.40	131.72	131.72	131.77	131.55	131.30	130.97	130.97	131.33	131.43	131.54
25	131.57	131.39	131.68	131.72	131.76	131.54	131.28	131.03	130.96	131.33	131.46	131.52
26	131.54	131.38	131.65	131.71	131.74	131.54	131.27	131.00	130.97	131.35	131.66	131.50
27	131.51	131.37	131.64	131.71	131.75	131.56	131.25	130.99	130.97	131.35	131.64	131.51
28	131.49	131.37	131.64	131.70	131.76	131.55	131.23	130.98	130.95	131.33	131.62	131.63
29	131.48	131.36	131.74	131.69	131.70	131.52	131.22	130.98	130.95	131.32	131.60	131.63
30	131.46	131.36	131.89	131.67	---	131.48	131.20	130.97	131.00	131.32	131.58	131.62
31	131.45	---	131.86	131.66	---	131.47	---	130.93	---	131.34	131.56	---
MEAN	131.56	131.38	131.58	131.75	131.65	131.59	131.37	131.02	130.85	131.27	131.49	131.58
MAX	131.67	131.44	131.89	131.84	131.79	131.68	131.48	131.18	131.00	131.35	131.66	131.72
MIN	131.45	131.29	131.36	131.66	131.53	131.47	131.20	130.86	130.66	131.05	131.39	131.48

WTR YR 1984 MEAN 131.42 HIGH 131.89 DEC 30 LOW 130.66 JUN 13

PEACE RIVER BASIN

02294112 LAKE GARFIELD NEAR ALTURAS, FL

LOCATION.--Lat 27°54'02", long 81°43'25", in SW¼ sec.4, T.30 S., R.26 E., Polk County, Hydrologic Unit 03100101, on southeast shore of lake, 2.1 mi northwest of Alturas.

SURFACE AREA.--664 acres (1.04 mi^2).

DRAINAGE AREA.--18.0 mi^2.

PERIOD OF RECORD.--October 1969 to July 1971 (fragmentary); August 1971 to March 1980 (twice weekly), incomplete; March 1980 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to June 12, 1974, at site 1,400 ft south at datum 8.81 ft higher.

REMARKS.--Lake is connected by outlet to Peace Creek drainage canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 105.91 ft Sept. 30, 1979; lake dry from late April to mid May 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 104.58 ft Jan. 2; minimum daily, 102.69 ft June 15, 30.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	103.31	---	---	---	---	---	---	---	---	---	---
2	---	---	---	104.58	---	---	---	---	---	---	---	103.52
3	103.56	---	---	---	---	---	103.38	---	---	---	---	---
4	---	---	---	---	---	---	---	---	102.76	102.91	---	---
5	103.44	---	103.46	---	103.70	103.66	---	---	102.72	---	102.98	---
6	---	---	---	---	---	---	---	102.93	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	103.26	---	---	---	---	---	---	---	---	---	---
9	---	---	---	104.38	---	---	---	---	---	102.86	103.22	103.44
10	103.40	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	103.57	103.35	---	---	---	---	---
12	---	---	103.58	---	103.60	---	---	---	---	---	103.28	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	103.20	---	---	---	---	---	102.98	---	---	---	---
15	---	---	103.70	---	103.72	---	---	---	102.69	---	---	---
16	---	---	---	104.18	---	---	103.32	---	---	---	---	103.40
17	103.40	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	103.92	---	103.70	103.59	---	---	---	102.94	103.40	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	103.24	---	---	---	---	---	102.76	102.80	---	---	---
22	---	---	---	---	---	---	---	---	---	102.97	---	---
23	---	---	---	104.02	---	---	---	---	---	---	---	103.14
24	103.42	---	---	---	---	---	103.16	---	---	---	---	---
25	---	---	---	---	---	103.56	---	---	---	---	---	---
26	---	---	103.92	---	103.78	103.54	---	---	---	---	103.60	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	103.22	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	102.88	---	102.98	---	103.14
30	---	---	---	103.88	---	---	103.08	---	102.69	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

02294224 LAKE GIBSON NEAR LAKELAND, FL

LOCATION.--Lat 28°06'40", long 81°57'18", in NW¼ sec.30, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100101, on northeast shore of lake, on private pier, and 4.6 mi north of Lakeland.

SURFACE AREA.--477 acres (0.75 mi^2).

DRAINAGE AREA.--4.31 mi^2 .

PERIOD OF RECORD.--July 1954 to November 1959 (fragmentary); October 1969 to current year (incomplete). Records of elevations prior to October 1969 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 135.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to October 1969, reference point at site on south shore of lake at datum 11.4 ft higher (by altimeter); October 1969 to March 1975, at present site at datum 0.93 ft higher.

REMARKS.--Lake level is controlled by stoplogs and gate in culverts at outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 145.1 ft Oct. 8, 1957; minimum observed, 140.68 ft May 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 143.20 ft Dec. 30, Apr. 5; minimum observed, 141.95 ft Sept. 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142.90	142.75	142.74	142.99	142.84	142.87	142.72	142.40	142.35	142.19	142.18	142.15
2	142.89	142.74	142.73	142.96	142.82	142.86	142.70	142.38	142.32	142.15	142.18	142.15
3	142.87	142.72	142.73	142.90	142.81	142.84	142.69	142.36	142.30	142.54	142.16	142.14
4	142.85	142.71	142.73	142.84	142.80	142.83	142.91	142.34	142.28	142.74	142.14	142.14
5	142.83	142.70	142.72	142.80	142.79	142.82	143.20	142.33	142.27	142.70	142.14	142.12
6	142.82	142.68	142.72	142.80	142.78	142.82	143.14	142.32	142.25	142.65	142.14	142.18
7	142.79	142.72	142.80	142.79	142.76	142.81	143.07	142.31	142.24	142.58	142.14	142.16
8	142.77	142.70	142.80	142.79	142.76	142.81	143.00	142.30	142.22	142.49	142.18	142.15
9	142.90	142.72	142.78	142.78	142.74	142.80	142.95	142.31	142.21	142.53	142.18	142.14
10	142.88	142.71	142.78	142.80	142.74	142.80	142.91	142.30	142.18	142.50	142.16	142.12
11	142.91	142.70	142.77	142.86	142.72	142.79	142.86	142.28	142.16	142.51	142.16	142.11
12	142.97	142.70	142.92	142.90	142.72	142.79	142.83	142.27	142.14	142.45	142.16	142.10
13	143.01	142.69	142.92	142.90	142.74	142.82	142.78	142.25	142.12	142.38	142.14	142.09
14	143.00	142.69	142.91	142.90	142.90	142.82	142.76	142.24	142.11	142.35	142.12	142.07
15	143.05	142.67	143.11	142.90	142.90	142.82	142.71	142.22	142.10	142.28	142.14	142.06
16	143.03	142.69	143.08	142.90	142.89	142.82	142.71	142.20	142.09	142.27	142.14	142.06
17	143.05	142.69	143.01	142.89	142.88	142.81	142.67	142.19	142.08	142.24	142.16	142.04
18	143.08	142.68	142.94	142.89	142.88	142.80	142.63	142.16	142.19	142.26	142.16	142.03
19	143.06	142.68	142.88	142.99	142.86	142.80	142.60	142.14	142.18	142.24	142.18	142.08
20	143.03	142.68	142.90	142.98	142.87	142.79	142.57	142.11	142.17	142.22	142.18	142.08
21	142.99	142.79	142.90	142.97	142.85	142.81	142.55	142.09	142.17	142.24	142.22	142.06
22	142.96	142.79	142.90	142.95	142.94	142.79	142.54	142.07	142.14	142.20	142.24	142.05
23	142.93	142.78	142.88	142.93	142.90	142.76	142.52	142.24	142.11	142.17	142.22	142.04
24	142.90	142.78	142.88	142.90	142.88	142.76	142.50	142.36	142.14	142.18	142.24	142.02
25	142.88	142.79	142.86	142.88	142.86	142.76	142.50	142.40	142.23	142.17	142.22	141.99
26	142.86	142.78	142.84	142.88	142.84	142.74	142.48	142.40	142.20	142.15	142.22	141.96
27	142.85	142.78	142.82	142.90	142.82	142.79	142.46	142.39	142.18	142.20	142.22	141.95
28	142.82	142.76	142.80	142.90	142.90	142.78	142.45	142.40	142.14	142.17	142.20	142.14
29	142.79	142.76	142.79	142.88	142.88	142.76	142.44	142.39	142.16	142.15	142.19	142.16
30	142.78	142.74	143.20	142.88	---	142.74	142.42	142.38	142.17	142.17	142.18	142.15
31	142.76	---	143.16	142.86	---	142.73	---	142.37	---	142.16	142.17	---
MEAN	142.91	142.73	142.87	142.89	142.83	142.80	142.71	142.29	142.19	142.33	142.18	142.09
MAX	143.08	142.79	143.20	142.99	142.94	142.87	143.20	142.40	142.35	142.74	142.24	142.18
MIN	142.76	142.67	142.72	142.78	142.72	142.73	142.42	142.07	142.08	142.15	142.12	141.95

CAL YR 1983 MEAN 142.52 MAX 143.21 MIN 141.43
WTR YR 1984 MEAN 142.57 MAX 143.20 MIN 141.95

PEACE RIVER BASIN

02294259 LAKE PARKER AT LAKELAND, FL

LOCATION.--Lat 28°02'59", long 81°55'22", in NW¼ sec.16, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100101, on south shore of lake, on dock at city power plant, at Lakeland.

SURFACE AREA.--2,291 acres (3.58 mi²).

DRAINAGE AREA.--23.6 mi².

PERIOD OF RECORD.--May 1949 to June 1954 (weekly), incomplete; July 1954 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Dec. 7, 1950, reference point at same site at datum 37.47 ft higher; Dec. 7, 1950, to July 21, 1954, nonrecording gage at same site and July 21, 1954, to May 9, 1975, at same site at datum 26.50 ft higher.

REMARKS.--Outflow from lake is through a canal to Saddle Creek; level is controlled by structure in outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 131.91 ft June 26, 1982; minimum daily, 127.92 ft May 24, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 131.19 ft Dec. 30; minimum, 129.77 ft Sept. 27.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130.72	130.68	130.69	131.05	130.58	130.59	130.40	130.15	130.07	130.11	130.12	130.04
2	130.71	130.67	130.68	131.00	130.55	130.57	130.40	130.14	130.05	130.11	130.13	130.02
3	130.70	130.66	130.67	130.96	130.54	130.55	130.38	130.10	130.04	130.26	130.12	130.02
4	130.70	130.65	130.67	130.93	130.57	130.51	130.60	130.08	130.02	130.30	130.08	130.01
5	130.69	130.65	130.68	130.92	130.57	130.47	130.74	130.08	130.02	130.29	130.07	130.00
6	130.68	130.65	130.70	130.90	130.57	130.46	130.74	130.07	130.01	130.27	130.16	130.03
7	130.68	130.65	130.74	130.86	130.54	130.50	130.71	130.09	129.98	130.25	130.14	130.02
8	130.67	130.67	130.72	130.82	130.52	130.45	130.66	130.09	129.97	130.23	130.11	130.01
9	130.73	130.67	130.71	130.80	130.52	130.42	130.63	130.10	129.95	130.28	130.10	129.99
10	130.73	130.67	130.70	130.80	130.50	130.41	130.63	130.08	129.93	130.27	130.06	129.97
11	130.76	130.67	130.69	130.85	130.51	130.39	130.63	130.05	129.91	130.25	130.04	129.97
12	130.82	130.65	130.81	130.85	130.53	130.39	130.59	130.02	129.89	130.23	130.05	129.95
13	130.92	130.62	130.86	130.83	130.62	130.48	130.57	130.01	129.90	130.21	130.09	129.94
14	130.94	130.61	130.87	130.81	130.75	130.50	130.52	130.00	129.97	130.17	130.12	129.92
15	130.95	130.60	131.00	130.79	130.74	130.51	130.46	129.98	129.98	130.16	130.15	129.89
16	130.95	130.62	130.98	130.78	130.73	130.51	130.48	129.96	129.97	130.17	130.14	129.88
17	130.93	130.60	130.97	130.76	130.72	130.51	130.41	129.93	130.00	130.12	130.13	129.86
18	130.92	130.59	130.95	130.74	130.71	130.50	130.36	129.90	130.12	130.10	130.12	129.87
19	130.92	130.58	130.94	130.76	130.69	130.48	130.33	129.87	130.19	130.10	130.10	130.00
20	130.90	130.60	130.98	130.75	130.70	130.45	130.30	129.85	130.21	130.06	130.10	129.96
21	130.90	130.68	130.96	130.75	130.70	130.48	130.28	129.84	130.19	130.09	130.13	129.90
22	130.85	130.69	130.94	130.72	130.81	130.43	130.24	129.86	130.17	130.17	130.15	129.88
23	130.80	130.68	130.93	130.69	130.81	130.43	130.22	130.01	130.15	130.15	130.14	129.87
24	130.80	130.68	130.93	130.66	130.75	130.44	130.21	130.08	130.16	130.14	130.13	129.86
25	130.79	130.71	130.85	130.66	130.71	130.44	130.20	130.10	130.20	130.15	130.13	129.83
26	130.77	130.69	130.80	130.65	130.65	130.45	130.18	130.10	130.20	130.15	130.13	129.82
27	130.74	130.68	130.77	130.65	130.60	130.47	130.17	130.12	130.16	130.17	130.12	129.84
28	130.71	130.69	130.76	130.65	130.66	130.43	130.17	130.12	130.14	130.14	130.11	130.00
29	130.70	130.70	130.90	130.63	130.63	130.49	130.16	130.11	130.11	130.11	130.09	130.01
30	130.69	130.69	131.15	130.61	---	130.45	130.16	130.12	130.09	130.07	130.06	130.02
31	130.69	---	131.11	130.60	---	130.41	---	130.11	---	130.08	130.06	---
MEAN	130.79	130.65	130.84	130.78	130.64	130.47	130.42	130.04	130.06	130.17	130.11	129.95
MAX	130.95	130.71	131.15	131.05	130.81	130.59	130.74	130.15	130.21	130.30	130.16	130.04
MIN	130.67	130.58	130.67	130.60	130.50	130.39	130.16	129.84	129.89	130.06	130.04	129.82

WTR YR 1984 MEAN 130.41 HIGH 131.15 DEC 30 LOW 129.82 SEP 26

PEACE RIVER BASIN

02294298 LAKE ARIETTA NEAR AUBURNDALE, FL

LOCATION.--Lat 28°05'43", long 81°47'43", in NE¼ sec.34, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on southeast shore of lake, 2.3 mi north of Auburndale.

SURFACE AREA.--764 acres (1.19 mi²).

DRAINAGE AREA.--3.70 mi².

PERIOD OF RECORD.--August 1970 to September 1976; October 1976 to September 1978 (thrice weekly), incomplete; October 1978 to current year.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Nov. 21, 1972 at site nearby at datum 0.10 ft lower and Nov. 22, 1972 to Sept. 8, 1980 at several sites nearby at same datum.

REMARKS.--Lake is in the Saddle Creek Branch area of Peace River headwaters and level is controlled by structure P-3.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 143.34 ft Mar. 31, Apr. 1,2,3, 1983; minimum observed, 136.50 ft May 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 142.70 ft Feb. 24,25; minimum observed, 141.80 ft June 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142.16	142.06	141.98	142.34	142.38	142.66	142.50	142.34	142.08	141.86	142.06	142.20
2	142.16	142.06	141.96	142.32	142.38	142.66	142.50	142.34	142.06	141.84	142.16	142.20
3	142.16	142.04	141.96	142.32	142.36	142.64	142.48	142.32	142.04	141.84	142.14	142.20
4	142.14	142.04	141.98	142.32	142.36	142.64	142.60	142.30	142.02	141.86	142.14	142.18
5	142.14	142.02	141.98	142.30	142.36	142.64	142.60	142.28	142.00	141.86	142.12	142.20
6	142.12	142.02	141.98	142.30	142.34	142.64	142.58	142.26	141.98	141.88	142.24	142.24
7	142.12	142.00	141.98	142.30	142.34	142.62	142.58	142.28	141.96	141.90	142.24	142.24
8	142.10	142.04	141.96	142.30	142.32	142.62	142.56	142.28	141.94	141.92	142.24	142.22
9	142.12	142.04	141.96	142.28	142.32	142.62	142.56	142.30	141.92	141.92	142.26	142.20
10	142.12	142.02	141.96	142.28	142.30	142.60	142.58	142.28	141.90	141.94	142.24	142.16
11	142.10	142.02	141.96	142.32	142.28	142.60	142.58	142.26	141.88	141.94	142.22	142.12
12	142.24	142.00	142.08	142.34	142.28	142.60	142.56	142.24	141.86	141.96	142.20	142.10
13	142.28	141.98	142.08	142.34	142.32	142.66	142.56	142.22	141.84	141.96	142.26	142.10
14	142.28	141.98	142.08	142.34	142.48	142.66	142.56	142.20	141.84	141.96	142.30	142.08
15	142.30	141.96	142.16	142.34	142.52	142.66	142.54	142.18	141.82	141.94	142.30	142.08
16	142.28	141.96	142.16	142.36	142.52	142.66	142.54	142.16	141.82	142.06	142.28	142.06
17	142.28	141.94	142.16	142.36	142.52	142.64	142.52	142.14	141.80	142.04	142.26	142.04
18	142.28	141.94	142.18	142.36	142.50	142.64	142.52	142.12	141.98	142.04	142.24	142.02
19	142.28	141.92	142.18	142.38	142.50	142.64	142.50	142.10	141.98	142.02	142.24	142.12
20	142.26	141.90	142.18	142.38	142.50	142.62	142.48	142.06	141.96	142.00	142.26	142.10
21	142.26	142.00	142.20	142.38	142.54	142.62	142.46	142.02	141.94	142.00	142.28	142.08
22	142.26	142.02	142.20	142.36	142.66	142.60	142.44	142.00	141.92	141.98	142.30	142.08
23	142.26	142.02	142.20	142.40	142.68	142.60	142.44	142.04	141.96	142.08	142.28	142.06
24	142.24	142.00	142.18	142.40	142.70	142.60	142.42	142.08	141.96	142.06	142.26	142.04
25	142.24	142.00	142.18	142.40	142.70	142.58	142.40	142.14	141.94	142.06	142.26	142.02
26	142.22	142.00	142.16	142.42	142.68	142.58	142.40	142.14	141.92	142.04	142.30	142.00
27	142.20	141.98	142.14	142.42	142.68	142.60	142.38	142.12	141.90	142.10	142.30	141.98
28	142.18	141.98	142.12	142.42	142.68	142.58	142.38	142.12	141.88	142.08	142.28	142.10
29	142.14	141.98	142.10	142.40	142.66	142.56	142.36	142.10	141.88	142.06	142.26	142.10
30	142.10	141.98	142.32	142.40	---	142.54	142.36	142.10	141.86	142.02	142.24	142.08
31	142.08	---	142.34	142.40	---	142.52	---	142.10	---	142.00	142.22	---
MEAN	142.20	142.00	142.10	142.35	142.48	142.62	142.50	142.18	141.93	141.97	142.24	142.11
MAX	142.30	142.06	142.34	142.42	142.70	142.66	142.60	142.34	142.08	142.10	142.30	142.24
MIN	142.08	141.90	141.96	142.28	142.28	142.52	142.36	142.00	141.80	141.84	142.06	141.98

CAL YR 1983 MEAN 142.41 MAX 143.34 MIN 141.90
WTR YR 1984 MEAN 142.22 MAX 142.70 MIN 141.80

PEACE RIVER BASIN

02294300 LAKE WHISTLER NEAR AUBURNDALE, FL

LOCATION.--Lat 28°05'18", long 81°48'54", in SE¼ sec.33, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on west shore of lake, on private pier, 2.2 mi northwest of Auburndale.

SURFACE AREA.--78.0 acres (0.12 mi²).

DRAINAGE AREA.--4.33 mi².

PERIOD OF RECORD.--August 1970 to current year (incomplete).

REVISED RECORDS.--WDR FL-80-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Jan. 5, 1972, at site 0.4 mi south at datum 0.08 ft lower; Jan. 5, 1972, to Nov. 20, 1980, at site 0.4 mi south at present datum.

REMARKS.--Lake is in the Saddle Creek Branch area of Peace River headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 138.12 ft Apr. 10, 1983; minimum observed, 134.50 ft May 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 137.23 ft July 31; minimum observed, 136.24 ft Sept. 18.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136.62	136.56	136.64	136.90	136.74	136.78	136.60	136.49	136.45	136.40	137.18	136.31
2	136.61	136.56	136.64	136.88	136.73	136.77	136.59	136.48	136.42	136.48	137.04	136.30
3	136.60	136.56	136.64	136.86	136.72	136.77	136.58	136.48	136.42	136.52	136.90	136.34
4	136.60	136.56	136.64	136.86	136.71	136.76	136.68	136.47	136.41	136.54	136.80	136.30
5	136.60	136.56	136.64	136.85	136.70	136.75	136.72	136.46	136.40	136.54	136.74	136.36
6	136.60	136.56	136.63	136.84	136.68	136.74	136.69	136.45	136.38	136.56	136.76	136.37
7	136.60	136.56	136.66	136.82	136.68	136.75	136.68	136.46	136.37	136.60	136.70	136.34
8	136.59	136.61	136.66	136.80	136.67	136.74	136.64	136.45	136.36	136.64	136.62	136.32
9	136.70	136.61	136.65	136.80	136.66	136.72	136.63	136.46	136.35	136.65	136.61	136.30
10	136.68	136.60	136.64	136.79	136.66	136.71	136.68	136.46	136.34	136.66	136.56	136.31
11	136.72	136.60	136.64	136.86	136.66	136.70	136.64	136.45	136.32	136.68	136.50	136.30
12	136.72	136.58	136.78	136.84	136.66	136.69	136.62	136.44	136.31	136.82	136.48	136.30
13	136.76	136.58	136.76	136.82	136.66	136.76	136.62	136.42	136.30	136.84	136.50	136.29
14	136.74	136.56	136.74	136.81	136.84	136.76	136.62	136.41	136.29	136.88	136.50	136.28
15	136.74	136.56	136.82	136.80	136.82	136.74	136.62	136.40	136.28	136.88	136.48	136.28
16	136.72	136.58	136.80	136.80	136.80	136.72	136.63	136.39	136.28	136.86	136.46	136.27
17	136.72	136.58	136.78	136.80	136.80	136.72	136.61	136.38	136.30	136.84	136.42	136.26
18	136.71	136.57	136.78	136.79	136.78	136.71	136.60	136.36	136.42	136.82	136.40	136.24
19	136.70	136.56	136.76	136.82	136.77	136.71	136.59	136.35	136.42	136.82	136.40	136.38
20	136.70	136.56	136.82	136.82	136.78	136.70	136.58	136.34	136.42	136.80	136.40	136.36
21	136.68	136.68	136.80	136.80	136.76	136.72	136.57	136.32	136.41	136.78	136.40	136.34
22	136.68	136.68	136.78	136.78	136.92	136.68	136.57	136.31	136.40	136.75	136.40	136.32
23	136.68	136.68	136.76	136.78	136.90	136.69	136.56	136.36	136.41	136.80	136.39	136.32
24	136.68	136.68	136.74	136.78	136.86	136.68	136.58	136.38	136.40	136.82	136.38	136.30
25	136.66	136.68	136.72	136.77	136.85	136.68	136.56	136.46	136.40	136.82	136.38	136.28
26	136.64	136.68	136.72	136.77	136.84	136.67	136.54	136.48	136.38	136.92	136.38	136.26
27	136.62	136.66	136.70	136.77	136.82	136.69	136.52	136.47	136.38	137.06	136.36	136.26
28	136.60	136.64	136.70	136.77	136.84	136.68	136.51	136.46	136.38	137.14	136.34	136.42
29	136.60	136.66	136.70	136.76	136.82	136.66	136.50	136.45	136.40	137.18	136.33	136.42
30	136.58	136.65	136.85	136.76	---	136.64	136.50	136.47	136.40	137.20	136.32	136.40
31	136.58	---	136.90	136.75	---	136.62	---	136.46	---	137.23	136.32	---
MEAN	136.66	136.61	136.73	136.81	136.76	136.71	136.60	136.43	136.37	136.79	136.53	136.32
MAX	136.76	136.68	136.90	136.90	136.92	136.78	136.72	136.49	136.45	137.23	137.18	136.42
MIN	136.58	136.56	136.63	136.75	136.66	136.62	136.50	136.31	136.28	136.40	136.32	136.24

CAL YR 1983 MEAN 137.08 MAX 138.12 MIN 136.56
WTR YR 1984 MEAN 136.61 MAX 137.23 MIN 136.24

AVAILABLE

PEACE RIVER BASIN

02294303 ARIANA LAKE AT AUBURNDALE, FL

LOCATION.--Lat 28°05'16", long 81°47'41", in SE¼ sec.34, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on north shore of lake, 1,650 ft west of State Highway 559, and 1.7 mi north of Auburndale.

SURFACE AREA.--1,019 acres (1.59 mi²).

DRAINAGE AREA.--7.86 mi².

PERIOD OF RECORD.--June 1945 to January 1948 (weekly), incomplete; February 1958 to February 1960 (fragmentary); November 1971 to current year (twice weekly), incomplete. Records of elevations prior to November 1971 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-80-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District); gage readings have been reduced to elevations NGVD. Prior to Mar. 18, 1975, at site 1,000 ft east at datum 31.90 ft higher.

REMARKS.--Lake is in Saddle Creek Branch area of Peace River headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 137.90 ft Aug. 28, 1946; minimum observed, 131.28 ft May 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 136.50 ft Feb. 24; minimum observed, 135.40 ft June 11.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

MAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	135.86	---	---	---	---	---	135.58	---	---	---
2	---	---	---	136.22	---	136.34	136.30	---	---	135.42	---	---
3	135.90	---	---	---	136.34	---	---	---	---	---	135.56	135.72
4	---	---	---	---	---	---	---	135.82	135.52	---	---	---
5	---	135.88	135.86	---	---	136.34	---	---	---	---	---	---
6	---	---	---	136.22	136.30	---	136.16	---	---	135.46	135.76	---
7	135.90	---	---	---	---	---	---	135.80	135.47	---	---	135.80
8	---	135.88	---	---	---	---	---	---	135.44	---	---	---
9	---	---	135.88	136.22	---	136.30	136.10	---	---	135.50	---	---
10	136.00	---	---	---	136.28	---	---	---	---	---	135.80	135.76
11	136.00	---	---	---	---	---	---	135.78	135.40	---	---	---
12	---	135.86	135.98	---	---	136.30	---	---	---	---	---	---
13	---	---	---	136.28	136.30	---	135.96	---	---	135.50	135.80	---
14	136.02	135.82	---	---	---	---	---	135.70	---	---	---	135.70
15	---	---	---	---	---	---	---	---	135.46	---	---	---
16	---	---	136.00	136.28	---	136.30	135.94	---	---	135.52	---	---
17	---	---	---	---	136.44	---	---	---	---	---	135.80	135.68
18	136.06	135.78	---	---	---	---	---	135.56	135.50	---	---	---
19	---	---	136.04	---	---	136.30	---	---	---	---	---	---
20	---	---	---	---	136.44	---	135.92	---	---	135.48	135.80	---
21	136.04	135.88	---	136.34	---	---	---	135.52	---	---	---	135.70
22	---	---	---	---	---	---	---	---	135.40	---	---	---
23	---	---	136.08	136.34	---	136.30	135.90	---	---	135.48	---	135.66
24	136.02	---	---	---	136.50	---	---	---	---	---	135.78	---
25	---	135.88	---	136.32	---	---	---	135.66	135.40	---	---	---
26	---	---	136.10	---	---	136.30	---	---	---	---	---	---
27	---	---	---	136.38	136.40	---	135.82	---	---	135.46	135.76	---
28	135.92	135.88	---	---	---	---	---	135.60	---	---	---	135.90
29	---	135.88	---	---	---	---	---	---	135.42	---	---	---
30	---	---	---	136.34	---	136.30	135.82	---	---	135.46	---	---
31	135.90	- -	136.22	---	---	---	---	---	---	---	135.74	---

PEACE RIVER BASIN

02294959 LAKE BUFFUM NEAR ALTURAS, FL

LOCATION.--Lat 27°48'30", long 81°40'01", in SE¼ sec.1, T.31 S., R.26 E., Polk County, Hydrologic Unit 03100101, on north shore of lake, 5.4 mi southeast of Alturas.

SURFACE AREA.--1,570 acres (2.45 mi²).

DRAINAGE AREA.--10 mi².

PERIOD OF RECORD.--April 1972 to current year (twice weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 96.62 ft National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District); gage readings have been reduced to elevations NGVD.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 132.42 ft Sept. 29, 1979; minimum daily, 126.02 ft May 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 131.02 ft several days in January; minimum daily, 129.12 ft Sept. 25.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	130.02	---	---	---
2	---	---	130.77	---	---	130.92	130.67	---	---	---	---	---
3	130.92	---	---	131.02	130.92	---	---	---	---	---	129.92	---
4	---	130.82	---	---	---	---	---	130.32	129.97	---	---	129.54
5	130.86	---	130.72	---	---	130.92	---	---	---	---	---	---
6	---	---	---	131.02	130.87	---	130.72	---	129.92	---	---	---
7	130.82	130.82	---	---	---	---	---	130.32	---	---	129.87	129.52
8	---	---	---	---	---	---	---	---	129.92	---	---	---
9	---	---	---	131.02	---	130.82	130.67	---	---	---	129.82	---
10	130.77	---	---	---	130.87	---	---	---	---	---	129.82	---
11	---	---	---	---	---	---	---	130.22	129.77	---	---	129.42
12	---	130.77	130.72	---	---	130.82	---	---	---	---	---	---
13	---	---	---	131.02	130.92	---	130.67	---	---	---	---	---
14	130.92	130.72	---	---	---	---	---	130.17	---	---	---	129.42
15	---	---	130.76	---	130.90	---	---	---	129.77	---	---	---
16	---	---	130.72	131.02	---	130.82	130.72	---	---	---	---	---
17	130.97	---	---	---	---	---	---	---	---	129.92	---	---
18	---	130.67	---	---	130.92	---	---	129.92	129.92	---	---	129.32
19	---	---	130.77	---	---	130.82	---	---	---	---	---	---
20	---	---	---	131.02	---	---	130.62	---	---	130.02	---	---
21	130.97	130.72	---	---	130.87	---	---	---	---	---	129.62	129.22
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	130.87	---	---	130.82	130.57	---	---	---	---	---
24	130.92	---	---	131.02	---	---	---	130.02	---	129.97	129.67	---
25	---	130.72	---	---	---	---	---	130.07	---	---	---	129.12
26	---	---	---	---	---	130.72	---	---	---	---	---	---
27	---	---	---	---	130.92	130.92	130.52	---	---	129.92	---	---
28	130.92	---	---	131.02	---	---	---	130.12	---	---	129.67	129.22
29	---	130.67	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	130.72	130.42	---	---	---	---	---
31	130.82	---	---	131.00	---	---	---	---	---	129.92	129.62	---

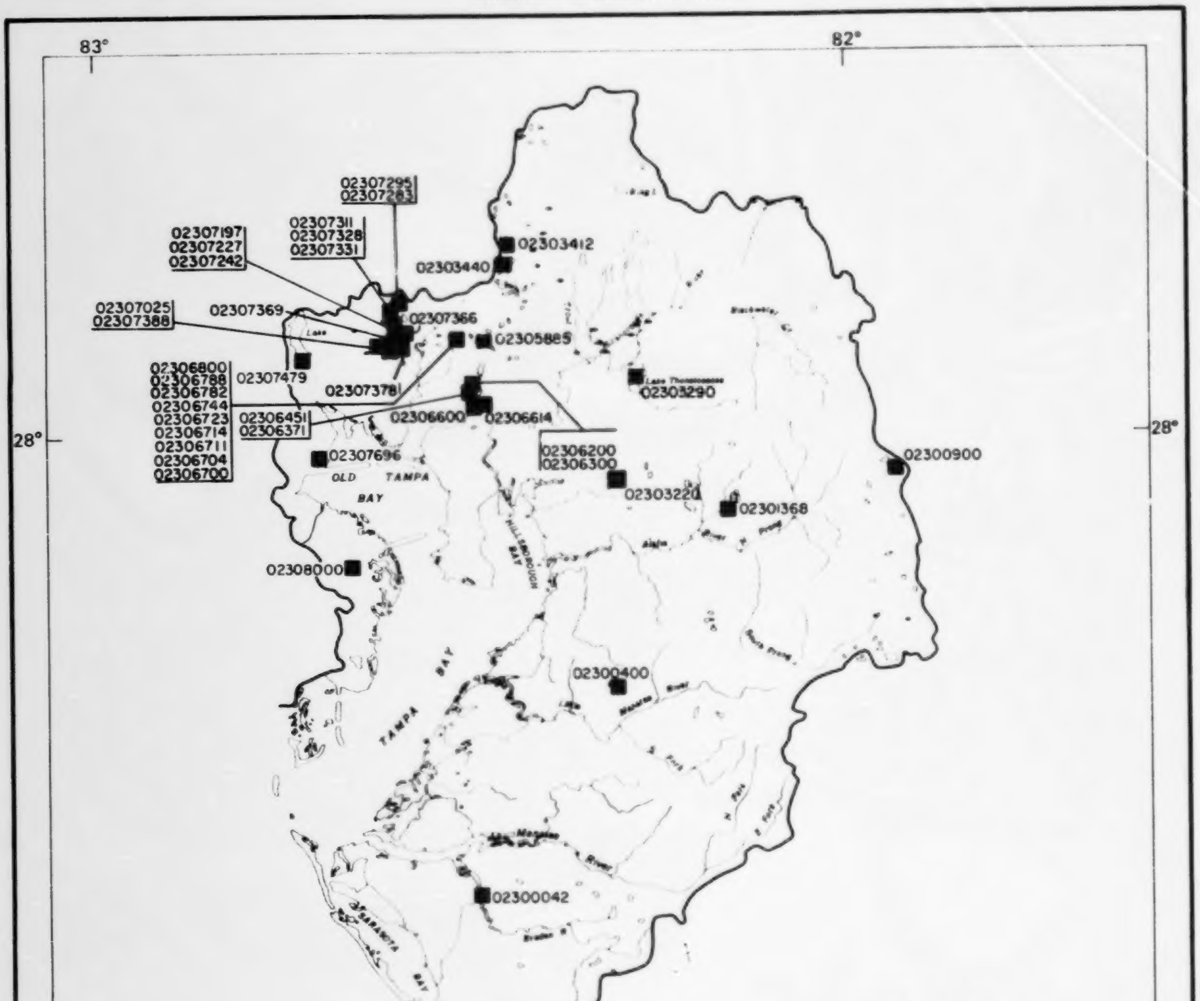

Figure 11. Location of lake gaging stations in the Manatee, Little Manatee, Alafia and Hillsborough River basins, Tampa Bay, and coastal areas.

MANATEE RIVER BASIN

02300042 WARD LAKE NEAR BRADENTON, FL

LOCATION.--Lat 27°26'29", long 82°29'09", in NE¼ sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on east shore of lake, 200 ft upstream of salinity barrier, and 5 mi southeast of Bradenton.

SURFACE AREA.--57.6 acres (0.09 mi^2).

DRAINAGE AREA.--59.5 mi^2, approximately.

ELEVATION RECORDS

PERIOD OF RECORD.--November 1942 to September 1947 (four times weekly); August 1976 to current year. Records of elevations prior to August 1976 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake elevations affected by diversion by city of Bradenton.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 5.60 ft June 27, 1943, affected by storm; minimum daily, 2.60 ft below NGVD, June 16, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.65 ft Mar. 13, 14; minimum, 2.80 ft May 27.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.94	3.92	4.01	4.07	3.92	3.96	4.06	3.88	3.29	3.44	4.20	3.78
2	3.92	3.91	4.00	4.02	3.92	3.95	4.04	3.87	3.26	3.43	4.18	3.71
3	3.92	3.90	3.99	3.99	3.92	3.95	4.07	3.85	3.26	3.44	4.10	3.65
4	3.93	3.89	3.98	3.98	3.92	3.94	4.08	3.82	3.26	3.47	4.07	3.60
5	3.93	3.90	3.98	3.97	3.92	3.94	4.08	3.79	3.19	3.51	4.23	3.56
6	3.89	3.91	3.97	3.96	3.90	3.94	4.10	3.76	3.12	3.59	4.35	3.53
7	3.87	3.96	3.97	3.95	3.91	3.93	4.06	3.72	3.08	3.67	4.22	3.50
8	3.87	4.08	3.96	3.95	3.91	3.93	4.06	3.69	3.03	3.77	4.17	3.45
9	3.93	4.08	3.96	3.94	3.91	3.92	4.06	3.65	3.01	3.86	4.43	3.40
10	3.94	4.03	3.96	3.99	3.91	3.92	4.09	3.62	2.98	3.92	4.31	3.35
11	3.93	4.01	3.94	4.10	3.91	3.92	4.11	3.59	2.95	4.00	4.17	3.32
12	4.01	3.99	3.94	4.07	3.91	3.94	4.12	3.55	2.90	4.00	4.12	3.29
13	4.01	3.99	3.94	4.03	3.92	4.40	4.08	3.51	2.87	4.00	4.08	3.25
14	4.01	3.98	3.97	4.01	3.93	4.58	4.08	3.46	2.92	4.00	4.07	3.21
15	4.13	3.98	4.40	3.99	3.94	4.36	4.06	3.38	3.16	4.03	4.13	3.17
16	4.39	3.98	4.42	3.98	3.93	4.21	4.08	3.27	3.21	4.08	4.12	3.13
17	4.20	3.98	4.22	3.97	3.92	4.15	4.10	3.16	3.22	4.07	4.10	3.11
18	4.09	3.98	4.14	3.97	3.92	4.09	4.07	3.09	3.28	4.02	4.09	3.08
19	4.04	3.98	4.10	3.99	3.92	4.05	4.03	3.02	3.41	4.01	4.05	3.20
20	4.01	4.00	4.15	4.00	3.92	4.03	4.00	2.95	3.49	4.13	4.01	3.28
21	4.00	4.02	4.09	3.99	3.92	4.03	3.98	2.92	3.54	4.07	4.02	3.27
22	4.01	4.02	4.05	3.98	3.96	4.00	3.97	2.89	3.55	4.02	4.04	3.25
23	4.08	4.01	4.02	3.97	3.96	4.15	3.97	2.89	3.56	4.09	4.04	3.21
24	4.06	4.01	4.00	3.97	3.95	4.44	3.97	2.86	3.59	4.27	4.07	3.15
25	4.02	4.01	3.98	3.96	3.94	4.38	3.96	2.83	3.58	4.15	4.13	3.09
26	3.98	4.01	3.96	3.96	3.94	4.24	3.95	2.83	3.55	4.13	4.07	3.02
27	3.96	4.01	3.96	3.95	3.95	4.19	3.93	2.83	3.55	4.25	4.04	2.95
28	3.95	4.00	3.95	3.94	3.99	4.15	3.92	2.90	3.51	4.22	4.01	2.96
29	3.94	4.00	4.01	3.94	3.98	4.09	3.92	3.01	3.49	4.16	3.93	2.92
30	3.93	4.02	4.17	3.93	---	4.10	3.90	3.19	3.46	4.16	3.87	2.89
31	3.93	---	4.15	3.92	---	4.06	---	3.29	---	4.22	3.83	---
MEAN	3.99	3.99	4.04	3.98	3.93	4.09	4.03	3.32	3.28	3.94	4.10	3.28
MAX	4.39	4.08	4.42	4.10	3.99	4.58	4.12	3.88	3.59	4.27	4.43	3.78
MIN	3.87	3.89	3.94	3.92	3.90	3.92	3.90	2.83	2.87	3.43	3.83	2.89

WTR YR 1984 MEAN 3.83 HIGH 4.58 MAR 14 LOW 2.83 MAY 25 AND OTHERS

MANATEE RIVER BASIN

02300042 WARD LAKE NEAR BRADENTON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SPE- CIFIC CON- DUC- TANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)
NOV 01...	1730	240	7.5	24.5	2.3	E1.4	.010
JAN 17...	1600	255	6.7	16.5	5.5	1.4	.010
FEB 16...	1500	330	7.4	18.0	5.2	1.3	<.010
APR 12...	1330	440	7.4	23.0	4.7	1.9	<.010
JUN 07...	1000	520	7.5	27.0	7.6	3.2	<.010
AUG 21...	1230	280	7.7	27.5	1.2	1.6	.010

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 01...	.02	.010	.76	.270	.260	--
JAN 17...	.07	.030	.75	.300	.250	20
FEB 16...	.03	.030	.59	.270	.220	13
APR 12...	.02	.030	.68	.270	.250	8.2
JUN 07...	<.02	.030	.84	.330	.260	15
AUG 21...	.02	.080	.91	.260	.210	18

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02300400 LAKE WIMAUMA AT WIMAUMA, FL

LOCATION.--Lat 27°42'38", long 82°18'47", in SW¼ sec.9, T.32 S., R.20 E., Hillsborough County, Hydrologic Unit 03100203, on north shore of lake, 0.9 mi southwest of Wimauma.

SURFACE AREA.--137 acres (0.21 mi²).

DRAINAGE AREA.--0.62 mi².

PERIOD OF RECORD.--December 1973 to September 1976 (weekly), incomplete; October 1976 to current year (twice weekly). Records of elevations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 20.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

COOPERATION.--Some records furnished by Hillsborough County Water Resources Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 83.94 ft Dec. 28, 1973; minimum daily, 75.56 ft July 1, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 82.52 ft Oct. 14, 17, Jan. 12, 27; minimum daily, 79.60 ft Sept. 23.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---		---	---	82.32	---	81.70	---	---	---	---
2	---	---		---	---	82.30	---	---	---	---	---	79.99
3	---	---		---	82.42	---	82.20	---	---	---	---	---
4	82.48	82.28		---	---	---	---	81.50	---	---	---	---
5	---	---		---	---	---	---	---	---	---	80.20	80.01
6	---	---		---	---	82.28	---	---	---	---	---	---
7	82.45	82.20		---	82.38	---	82.20	---	---	---	---	---
8	---	82.28		---	---	---	---	81.50	---	---	---	79.92
9	---	---		---	---	---	---	---	---	---	---	---
10	82.50	---		82.50	82.30	---	---	---	---	---	---	---
11	---	82.28		---	---	---	---	---	---	---	---	---
12	---	---		82.52	---	---	---	---	---	---	80.09	---
13	---	---		---	---	82.30	---	---	---	---	---	---
14	82.52	82.20		---	82.30	---	---	---	---	---	---	---
15	---	---		---	---	---	---	81.22	---	---	---	---
16	---	---		---	---	82.28	---	---	---	---	---	79.78
17	82.52	---		82.50	82.25	---	81.90	---	---	---	---	---
18	---	82.10		---	---	---	---	---	---	---	---	---
19	---	---		---	---	---	---	---	---	---	80.17	---
20	---	---		82.50	---	82.20	81.80	---	---	---	---	---
21	82.48	82.18		---	82.26	---	---	---	---	---	---	---
22	---	---		---	---	---	---	---	---	---	---	---
23	---	---		---	---	---	---	---	---	---	---	79.60
24	82.48	---		82.50	---	---	---	---	---	---	---	---
25	---	---		---	---	---	---	---	---	---	---	---
26	---	---		---	---	---	---	---	---	---	80.16	---
27	---	---		82.52	82.32	82.18	81.70	---	80.35	---	---	---
28	82.35	---		---	---	---	---	---	---	---	---	---
29	---	---		---	---	---	---	---	---	80.14	---	---
30	---	---		---	---	82.10	---	---	---	---	---	79.64
31	82.30	---		---	---	---	---	---	---	---	---	---

ALAFIA RIVER BASIN

02300900 SCOTT LAKE NEAR LAKELAND, FL

LOCATION.--Lat 27°57'44", long 81°56'04", in NW¼ sec.17, T.29 S., R.24 E., Polk County, Hydrologic Unit 03100204, on east shore of lake, 5.6 mi south of Lakeland.

SURFACE AREA.--287 acres (0.45 mi²).

DRAINAGE AREA.--2.11 mi².

PERIOD OF RECORD.--March 1953 to May 1954 (twice weekly); June 1954 to May 1965; August 1965 to November 1966 (weekly), incomplete; December 1966 to July 1967 (fragmentary); August 1967 to January 1969; February to September 1969 (weekly), incomplete; October 1969 to September 1977 (twice weekly), incomplete; October 1977 to current year (twice weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 150.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to June 16, 1954, and May 5, 1965, to May 6, 1968, nonrecording gage, and June 16, 1954, to May 5, 1965, water-stage recorder at site 0.3 mi south at datum 9.68 ft higher; May 6, 1968, to Oct. 28, 1969, at former site and present datum.

REMARKS.--Lake is in the headwaters of North Prong Alafia River; outlet has small concrete control structure. Elevation is affected by pumpage into lake from ground water.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 169.19 ft Sept. 13, 1960; minimum daily, 159.29 ft Nov. 18, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 167.92 ft Aug. 14; minimum daily, 167.10 ft June 13.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	167.52	---	---	---	---	---	---	167.28	---	---
2	---	---	---	---	167.76	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	167.20	---	167.28	---	---
4	167.78	---	---	---	---	167.70	---	---	---	167.40	---	---
5	---	---	---	---	---	---	---	---	167.28	---	---	---
6	---	---	---	---	---	---	---	---	---	167.40	167.85	---
7	---	---	---	---	167.70	---	---	---	---	---	---	---
8	167.78	167.60	167.58	---	---	167.68	---	167.30	---	---	167.80	---
9	---	---	---	---	167.68	---	---	167.30	---	167.55	167.87	---
10	---	---	---	167.88	---	---	167.45	---	---	---	---	---
11	---	---	---	---	---	---	---	167.32	167.12	167.55	167.75	---
12	167.90	---	---	---	---	167.62	---	---	---	---	---	---
13	---	---	167.76	---	---	167.70	---	---	167.10	---	---	---
14	167.90	---	---	167.90	167.75	---	167.45	167.25	---	---	167.92	---
15	---	167.50	167.76	---	---	---	---	---	---	---	---	---
16	---	---	---	167.88	167.72	---	---	---	---	167.45	---	---
17	---	167.50	---	167.90	---	167.68	---	---	---	167.45	---	---
18	---	---	---	---	---	---	167.40	---	---	---	---	---
19	---	---	167.78	---	167.70	---	---	167.25	167.25	---	---	---
20	167.84	---	167.82	---	167.72	---	---	---	---	---	---	167.46
21	---	---	---	---	---	---	---	---	---	167.55	167.84	---
22	---	167.55	167.86	167.85	---	---	---	---	167.20	---	167.85	---
23	---	---	---	---	---	---	---	---	---	---	---	167.40
24	---	---	---	---	---	---	---	167.35	---	---	167.80	---
25	---	---	---	---	---	167.60	---	167.33	---	167.58	---	---
26	167.76	---	---	167.85	---	167.62	---	---	167.30	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	167.58	---	---	---	---	---	167.40	---	---	167.72	---
29	---	---	167.80	---	---	---	---	---	---	167.54	167.70	---
30	---	---	---	---	---	---	---	---	167.28	---	---	167.50
31	167.76	---	---	167.80	---	---	---	---	---	---	---	---

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301368 EDWARD MEDARD RESERVOIR AT PLEASANT GROVE, FL

LOCATION.--Lat 27°54'37", long 82°10'08", in SW¼ sec.36, T.29 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, on west shore at concrete control structure, 0.1 mi upstream from bridge on Turkey Creek Road, 0.4 mi northwest of Pleasant Grove, 1.5 mi upstream from Turkey Creek, and 2.3 mi above mouth of Little Alafia River.

DRAINAGE AREA.--19.6 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--August 1970 to current year. Prior to October 1976, published as Pleasant Grove Reservoir at Pleasant Grove.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Department of Transportation bench mark). Prior to Feb. 23, 1972, at datum 0.40 ft lower.

REMARKS.--Reservoir is formed by concrete dam with earthen embankments, and is fed by the Little Alafia River and runoff from adjacent mining area. Level is controlled by concrete control structure. Reservoir was drained in October 1976 for construction of a new concrete control and modification of the earthen embankments.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 62.12 ft Sept. 24, 1979; reservoir essentially dry mid-October 1976 to early August 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 60.85 ft Dec. 30; minimum, 59.45 ft June 22, 23.

ELEVATION (FEET NGVD)   WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.28	59.98	59.99	60.69	60.20	60.40	60.08	59.98	59.74	59.54	60.39	60.28
2	60.26	59.97	59.99	60.61	60.19	60.39	60.07	59.96	59.72	59.56	60.64	60.25
3	60.23	59.96	59.99	60.55	60.20	60.37	60.06	59.93	59.71	59.58	60.66	60.21
4	60.21	59.94	59.99	60.49	60.21	60.35	60.18	59.91	59.70	59.59	60.62	60.19
5	60.19	59.94	59.99	60.44	60.20	60.32	60.28	59.90	59.68	59.63	60.57	60.22
6	60.17	59.93	60.00	60.40	60.18	60.31	60.26	59.88	59.66	59.75	60.54	60.34
7	60.15	59.93	60.01	60.37	60.16	60.29	60.24	59.87	59.63	59.78	60.52	60.32
8	60.14	59.96	60.00	60.34	60.15	60.26	60.22	59.84	59.61	59.79	60.66	60.29
9	60.12	59.96	59.98	60.31	60.14	60.23	60.21	59.92	59.59	59.81	60.66	60.25
10	60.11	59.96	59.98	60.36	60.13	60.21	60.19	59.91	59.56	59.90	60.59	60.23
11	60.12	59.96	59.97	60.47	60.13	60.19	60.17	59.89	59.54	59.95	60.53	60.21
12	60.13	59.94	60.13	60.45	60.13	60.19	60.15	59.87	59.52	60.12	60.48	60.19
13	60.14	59.92	60.18	60.43	60.16	60.26	60.15	59.86	59.50	60.20	60.45	60.18
14	60.14	59.91	60.21	60.41	60.24	60.27	60.15	59.85	59.49	60.43	60.40	60.16
15	60.15	59.90	60.40	60.38	60.25	60.25	60.18	59.84	59.48	60.45	60.37	60.14
16	60.15	59.90	60.40	60.36	60.25	60.23	60.17	59.83	59.48	60.46	60.33	60.13
17	60.15	59.88	60.40	60.34	60.24	60.21	60.15	59.80	59.47	60.43	60.39	60.11
18	60.15	59.86	60.39	60.33	60.24	60.19	60.13	59.76	59.50	60.42	60.48	60.10
19	60.14	59.85	60.39	60.36	60.23	60.17	60.12	59.73	59.51	60.40	60.43	60.10
20	60.13	59.89	60.67	60.37	60.23	60.15	60.11	59.71	59.50	60.44	60.40	60.10
21	60.12	59.97	60.67	60.36	60.25	60.14	60.10	59.70	59.49	60.44	60.47	60.09
22	60.11	59.98	60.60	60.34	60.39	60.12	60.10	59.69	59.46	60.41	60.64	60.07
23	60.11	59.98	60.55	60.33	60.42	60.15	60.09	59.72	59.47	60.44	60.61	60.06
24	60.10	59.99	60.49	60.31	60.40	60.17	60.08	59.72	59.50	60.42	60.57	60.05
25	60.09	60.00	60.42	60.30	60.38	60.17	60.06	59.74	59.51	60.39	60.54	60.03
26	60.07	59.99	60.37	60.30	60.36	60.17	60.05	59.73	59.51	60.37	60.58	60.01
27	60.05	59.99	60.35	60.29	60.35	60.16	60.04	59.72	59.50	60.39	60.54	60.01
28	60.02	59.99	60.33	60.29	60.45	60.14	60.02	59.71	59.49	60.37	60.48	60.49
29	60.01	60.00	60.45	60.26	60.44	60.12	60.00	59.71	59.50	60.34	60.42	60.58
30	60.00	59.99	60.83	60.24	---	60.10	59.99	59.77	59.51	60.33	60.37	60.52
31	59.99	---	60.77	60.22	---	60.09	---	59.76	---	60.34	60.32	---
MEAN	60.13	59.95	60.29	60.38	60.25	60.22	60.13	59.81	59.55	60.14	60.50	60.20
MAX	60.28	60.00	60.83	60.69	60.45	60.40	60.28	59.98	59.74	60.46	60.66	60.58
MIN	59.99	59.85	59.97	60.22	60.13	60.09	59.99	59.69	59.46	59.54	60.32	60.01

WTR YR 1984 MEAN 60.13 HIGH 60.83 DEC 30 LOW 59.46 JUN 22

ALAFIA RIVER BASIN

02301368 EDWARD MEDARD RESERVOIR AT PLEASANT GROVE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-77, 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT							
04...	1219	60.21	170	--	30.0	--	--
17...	1101	60.15	192	8.2	27.0	6.8	--
NOV							
04...	1001	59.94	200	7.5	23.0	8.3	--
FEB							
28...	0854	60.43	212	--	18.0	--	--
MAY							
24...	0942	59.71	183	6.9	27.5	4.7	.010
JUN							
07...	1517	59.62	225	--	31.0	--	--
AUG							
07...	0829	60.48	212	--	28.5	--	--

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
MAY						
24...	<.02	.060	1.8	.850	.680	15

02303220 VALRICO LAKE AT VALRICO, FL

LOCATION.--Lat 27°57'21", long 82°15'39", in SE¼ sec.13, T.29 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on west shore of lake, 0.7 mi north of Valrico.

SURFACE AREA.--130 acres (0.20 mi²).

DRAINAGE AREA.--8.25 mi².

PERIOD OF RECORD.--July 1974 to July 1976 (monthly), incomplete; August 1976 to September 1981 (twice weekly), incomplete; October 1981 to current year (weekly), incomplete. Records of elevations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records prior to August 1976, furnished by Hillsborough County Water Resources Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 47.10 ft Aug. 5, 1984; minimum daily, unknown, below 39.0 ft mid-May 1977 to March 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 47.10 ft Aug. 5; minimum daily, 45.14 ft June 16.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	45.26	---	---	---	---	45.42	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	45.38	---	---	---	---	---	---	---	---	---	---
5	---	---	---	45.90	---	45.90	---	45.35	---	---	47.10	---
6	---	---	---	---	45.85	---	---	---	45.16	---	---	---
7	45.64	45.35	---	---	---	---	45.78	---	---	---	---	---
8	---	---	45.26	---	---	---	---	---	---	45.56	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	45.65	45.28	45.28	---	45.80	45.69	45.64	45.20	45.14	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	46.95
20	---	---	45.76	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	45.64	---	---	---
22	---	---	---	---	---	---	45.62	---	---	---	---	---
23	---	45.28	---	---	---	---	---	45.20	---	46.40	---	---
24	45.50	---	---	---	---	45.57	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	45.67	---	45.88	---	45.50	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	45.57	---	---	45.65	46.48	---	---
31	45.35	---	---	---	---	---	---	45.18	---	---	---	---

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303290 LAKE THONOTOSASSA AT THONOTOSASSA, FL

LOCATION.--Lat 28°04'04", long 82°16'04", in NW¼ sec.12, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on right bank of lake outlet, 40 ft upstream from control, 50 ft upstream from bridge, 500 ft downstream from Lake Thonotosassa, 2.0 mi northeast of Thonotosassa, and 2.8 mi upstream from mouth of Flint Creek.

SURFACE AREA.--824 acres (1.29 mi²).

DRAINAGE AREA.--60 mi², approximately.

PERIOD OF RECORD.--September 1956 to December 1958 (records for Flint Creek near Thonotosassa); August 1965 to September 1976 (weekly), incomplete; October 1976 to August 1977 (monthly); October 1977 to September 1979 (published as Flint Creek near Thonotosassa); October 1979 to current year. Records of elevations prior to August 1965 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to December 1958, water-stage recorder at lake outlet at datum 32.16 ft higher; August 1965 to September 1973, nonrecording gage on west shore at datum 25.67 ft higher; October 1973 to August 1977, nonrecording gage at same site at present datum.

REMARKS.--Lake level controlled by control structure. Outflow is through Flint Creek to Hillsborough River.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 38.55 ft Aug. 18, 1967; minimum, 33.37 ft June 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 36.72 ft Dec. 30; minimum observed, 34.90 ft June 6.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.23	36.16	36.16	36.62	36.23	36.10	36.28	36.00	35.25	35.55	35.56	35.75
2	36.25	36.14	36.15	36.51	36.20	36.07	36.25	36.04	35.20	35.60	35.86	35.69
3	36.26	36.15	36.15	36.39	36.20	36.12	36.23	36.04	35.15	35.64	35.89	35.63
4	36.26	36.14	36.15	36.27	36.22	36.18	36.35	36.00	35.10	35.45	35.85	35.57
5	36.26	36.13	36.14	36.15	36.22	36.22	36.42	35.95	35.05	35.27	35.78	35.65
6	36.26	36.11	36.15	36.05	36.21	36.26	36.45	35.90	34.90	35.17	35.70	35.69
7	36.25	36.11	36.18	36.11	36.19	36.27	36.45	35.85	34.92	35.12	35.62	35.71
8	36.24	36.12	36.17	36.18	36.19	36.26	36.41	35.80	34.95	35.07	35.55	35.70
9	36.22	36.14	36.16	36.24	36.19	36.26	36.38	35.70	35.00	35.03	35.53	35.68
10	36.20	36.15	36.16	36.31	36.20	36.26	36.40	35.60	35.10	35.03	35.60	35.66
11	36.22	36.15	36.16	36.37	36.21	36.25	36.30	35.50	35.15	35.03	35.66	35.65
12	36.24	36.14	36.29	36.40	36.21	36.25	36.20	35.40	35.15	35.02	35.71	35.63
13	36.24	36.13	36.33	36.44	36.25	36.31	36.14	35.30	35.20	35.00	35.71	35.61
14	36.24	36.11	36.39	36.39	36.31	36.33	36.10	35.30	35.25	34.99	35.70	35.58
15	36.26	36.10	36.51	36.32	36.34	36.33	36.05	35.30	35.30	35.00	35.67	35.56
16	36.29	36.10	36.46	36.25	36.36	36.33	36.00	35.25	35.30	35.03	35.63	35.54
17	36.31	36.08	36.50	36.18	36.37	36.32	36.00	35.25	35.30	35.07	35.60	35.49
18	36.32	36.06	36.53	36.12	36.37	36.30	35.97	35.21	35.35	35.18	35.56	35.47
19	36.31	36.06	36.52	36.11	36.36	36.29	35.95	35.20	35.35	35.26	35.53	35.47
20	36.31	36.10	36.52	36.12	36.36	36.27	35.90	35.20	35.40	35.36	35.53	35.47
21	36.30	36.19	36.52	36.19	36.36	36.25	35.90	35.15	35.40	35.48	35.59	35.46
22	36.28	36.22	36.50	36.24	36.46	36.24	35.85	35.15	35.35	35.71	35.67	35.43
23	36.27	36.24	36.47	36.28	36.43	36.26	35.80	35.15	35.35	35.74	35.74	35.41
24	36.32	36.26	36.42	36.32	36.36	36.27	35.80	35.10	35.30	35.69	35.79	35.36
25	36.32	36.25	36.33	36.33	36.29	36.29	35.85	35.10	35.30	35.65	35.81	35.35
26	36.29	36.23	36.26	36.34	36.21	36.29	35.85	35.15	35.35	35.56	35.89	35.35
27	36.26	36.22	36.22	36.36	36.17	36.34	35.90	35.20	35.35	35.50	35.92	35.40
28	36.23	36.21	36.28	36.35	36.19	36.38	35.90	35.30	35.40	35.49	35.94	35.78
29	36.21	36.19	36.44	36.32	36.14	36.35	35.95	35.40	35.45	35.47	35.91	35.98
30	36.19	36.18	36.69	36.30	---	36.31	35.95	35.35	35.50	35.45	35.87	36.18
31	36.17	---	36.69	36.26	---	36.29	---	35.30	---	35.45	35.82	---
MEAN	36.26	36.15	36.34	36.28	36.27	36.27	36.10	35.46	35.24	35.32	35.72	35.60
MAX	36.32	36.26	36.69	36.62	36.46	36.38	36.45	36.04	35.50	35.74	35.94	36.18
MIN	36.17	36.06	36.14	36.05	36.14	36.07	35.80	35.10	34.90	34.99	35.53	35.35

WTR YR 1984 MEAN 35.92 HIGH 36.69 DEC 30 AND OTHERS LOW 34.90 JUN 6

NOTE.--Record estimated Apr. 10 to July 5.

HILLSBOROUGH RIVER BASIN

02303440 LAKE PADGETT NEAR LUTZ, FL

LOCATION.--Lat 28°12'12", long 82°27'43", in SW¼ sec.24, T.26 S., R.18 E., Pasco County, Hydrologic Unit 03100205, on private dock, on west shore of lake, and 3.7 mi north of Lutz.

SURFACE AREA.--200 acres (0.31 mi²).

DRAINAGE AREA.--6.6 mi², approximately.

PERIOD OF RECORD.--January 1965 to Sepember 1966 (about weekly); October 1966 to January 1970 (fragmentary); February 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Feb. 18, 1970, nonrecording gage at same site and datum.

REMARKS.--Lake is connected to Saxon Lake by a dredged channel and culverts.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 71.84 ft May 9, 1979; minimum, 67.62 ft May 26, June 1, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 70.95 ft Aug. 1, 2; minimum, 69.11 ft June 17.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.20	69.90	69.79	70.56	70.41	70.67	70.17	69.93	69.45	69.36	70.94	70.39
2	70.18	69.88	69.78	70.55	70.39	70.64	70.14	69.90	69.42	69.38	70.93	70.37
3	70.15	69.86	69.77	70.54	70.37	70.61	70.12	69.87	69.40	69.55	70.88	70.34
4	70.13	69.85	69.77	70.53	70.36	70.59	70.32	69.85	69.38	69.65	70.82	70.32
5	70.10	69.84	69.77	70.52	70.34	70.57	70.42	69.83	69.36	69.72	70.77	70.30
6	70.08	69.82	69.77	70.51	70.32	70.55	70.40	69.81	69.34	69.72	70.72	70.29
7	70.06	69.82	69.79	70.49	70.30	70.52	70.38	69.79	69.32	69.72	70.68	70.26
8	70.04	69.83	69.77	70.47	70.27	70.49	70.36	69.76	69.29	69.72	70.64	70.22
9	70.05	69.84	69.75	70.45	70.26	70.46	70.37	69.75	69.27	69.71	70.60	70.19
10	70.03	69.84	69.74	70.51	70.24	70.43	70.37	69.72	69.24	69.73	70.55	70.17
11	70.06	69.82	69.74	70.56	70.23	70.40	70.35	69.69	69.22	69.72	70.53	70.14
12	70.12	69.80	69.87	70.55	70.21	70.39	70.33	69.66	69.20	69.73	70.51	70.12
13	70.12	69.78	69.88	70.55	70.37	70.45	70.31	69.64	69.18	69.72	70.48	70.10
14	70.12	69.77	69.88	70.55	70.59	70.44	70.29	69.62	69.16	69.71	70.46	70.07
15	70.15	69.76	69.90	70.53	70.59	70.42	70.29	69.59	69.15	69.74	70.45	70.05
16	70.16	69.76	69.90	70.52	70.58	70.40	70.27	69.57	69.13	69.81	70.42	70.03
17	70.16	69.74	70.00	70.50	70.56	70.37	70.25	69.54	69.21	69.80	70.39	70.00
18	70.16	69.72	70.11	70.50	70.54	70.35	70.22	69.50	69.36	69.79	70.37	69.97
19	70.14	69.71	70.13	70.55	70.53	70.33	70.20	69.47	69.36	69.78	70.33	69.96
20	70.12	69.76	70.14	70.55	70.52	70.31	70.17	69.45	69.35	69.78	70.32	69.93
21	70.11	69.84	70.13	70.56	70.53	70.29	70.15	69.44	69.34	69.78	70.44	69.90
22	70.09	69.84	70.13	70.54	70.67	70.27	70.13	69.48	69.32	69.86	70.56	69.88
23	70.08	69.83	70.13	70.53	70.68	70.26	70.10	69.59	69.35	70.08	70.54	69.85
24	70.08	69.83	70.10	70.52	70.65	70.24	70.08	69.58	69.36	70.10	70.51	69.82
25	70.06	69.64	70.09	70.51	70.63	70.23	70.06	69.57	69.35	70.14	70.49	69.80
26	70.03	69.82	70.06	70.51	70.60	70.22	70.03	69.56	69.34	70.22	70.49	69.77
27	70.00	69.81	70.04	70.50	70.63	70.28	70.01	69.55	69.32	70.37	70.49	69.75
28	69.97	69.81	70.05	70.48	70.73	70.27	69.99	69.54	69.30	70.44	70.47	69.94
29	69.95	69.81	70.34	70.46	70.70	70.24	69.97	69.53	69.33	70.47	70.46	69.94
30	69.94	69.80	70.55	70.45	---	70.21	69.95	69.51	69.35	70.73	70.43	69.93
31	69.92	---	70.57	70.43	---	70.19	---	69.48	---	70.82	70.41	---
MEAN	70.08	69.81	69.98	70.52	70.48	70.39	70.21	69.64	69.30	69.90	70.55	70.06
MAX	70.20	69.90	70.57	70.56	70.73	70.67	70.42	69.93	69.45	70.82	70.94	70.39
MIN	69.92	69.71	69.74	70.43	70.21	70.19	69.95	69.44	69.13	69.36	70.32	69.75

WTR YR 1984 MEAN 70.08 HIGH 70.94 AUG 1 LOW 69.13 JUN 16

HILLSBOROUGH RIVER BASIN

02305855 CURIOSITY SINK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°03'12", long 82°27'42", in NW¼ sec.13, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, 400 ft downstream from Country Club Boulevard, 0.4 mi west of Interstate 275, and 1.9 mi north of Sulphur Springs.

DRAINAGE AREA.--3.48 mi^2.

PERIOD OF RECORD.--November 1981 to November 1982 (weekly), incomplete; December 1982 to current year, incomplete.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Some diversion by pumping from Curiosity Sink into Hillsborough River by the city of Tampa. Extremes may have been exceeded during periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 27.07 ft Sept. 3, 1983; minimum observed, 17.20 ft Dec. 23, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 23.90 ft July 11; minimum, 17.84 ft Aug. 21.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.81	18.27	21.16	22.56	22.71	20.90	21.45	21.22	21.20	20.47	20.87	21.35
2	20.15	18.42	21.41	22.47	22.75	21.19	21.43	21.43	20.89	21.14	22.83	20.58
3	20.11	20.63	21.54	21.57	22.78	20.75	21.33	21.55	20.87	20.70	22.25	21.84
4	20.04	21.24	21.63	19.38	22.85	20.95	20.47	21.50	21.02	20.86	20.75	20.98
5	19.89	21.49	21.69	19.09	22.83	20.53	20.51	21.37	21.07	21.21	22.67	19.49
6	19.77	21.18	21.69	19.04	22.79	19.33	19.19	21.33	20.98	21.58	23.12	19.23
7	19.57	20.43	20.98	19.15	22.78	18.87	19.03	21.36	20.78	21.30	21.61	20.33
8	19.90	18.68	21.52	19.25	22.24	18.86	20.05	21.45	20.63	21.35	21.23	19.93
9	20.41	18.95	21.71	21.34	21.91	19.92	20.22	21.50	20.59	21.87	20.56	19.07
10	20.15	20.60	21.75	21.47	22.27	20.79	19.60	21.33	20.56	21.94	19.78	20.89
11	22.02	20.62	21.79	20.54	22.41	18.95	20.16	21.41	20.78	22.22	19.59	21.16
12	21.42	21.05	21.12	21.60	22.47	20.29	19.58	21.16	20.61	19.76	22.26	21.21
13	20.89	21.12	20.80	21.72	22.58	19.31	21.27	21.10	20.84	19.57	20.98	20.77
14	20.62	21.38	19.32	19.96	21.88	20.85	21.58	21.25	20.41	21.43	20.33	20.53
15	20.64	21.34	20.79	20.36	22.22	20.65	19.19	21.13	20.09	19.07	20.25	19.96
16	20.68	21.43	20.48	21.26	20.93	21.03	19.61	20.95	20.44	21.86	20.20	19.74
17	20.78	21.19	19.14	21.33	20.51	21.59	21.28	20.89	19.91	22.14	20.36	21.90
18	20.46	21.42	19.29	20.07	21.92	21.80	20.40	20.85	19.64	22.34	19.99	21.57
19	20.27	21.60	18.96	20.54	22.25	21.42	19.59	20.81	20.43	20.06	21.11	19.62
20	20.18	21.67	18.80	19.60	21.55	20.41	21.15	20.78	20.73	21.42	21.36	21.64
21	20.30	20.66	18.58	19.76	20.51	21.13	21.37	20.74	20.75	22.02	19.61	21.34
22	20.88	21.77	19.79	19.54	22.23	21.75	21.50	20.82	20.46	21.32	20.16	22.47
23	22.09	22.10	21.41	19.94	22.00	20.57	21.62	21.18	20.02	21.27	22.48	21.85
24	20.90	22.06	21.86	21.41	21.84	21.25	21.69	19.95	20.34	21.34	21.81	21.73
25	20.37	21.11	20.82	21.96	21.63	21.86	21.72	19.28	20.91	20.26	20.26	22.23
26	21.88	21.76	22.06	22.39	21.26	21.79	21.71	20.67	21.05	20.34	20.65	21.89
27	19.80	21.87	21.17	21.69	21.54	20.81	19.95	20.84	21.04	20.88	21.77	22.00
28	19.29	21.87	19.02	20.87	22.03	20.92	20.53	20.48	21.05	20.24	20.00	22.14
29	19.17	21.01	20.08	22.11	21.10	19.85	21.20	20.81	20.35	21.11	20.49	20.15
30	19.35	19.24	20.85	22.44	---	21.27	20.87	20.93	20.39	20.27	21.33	21.59
31	19.36	---	22.28	22.65	---	21.41	---	21.08	---	20.98	20.23	---
MEAN	20.36	20.87	20.76	20.87	22.03	20.68	20.64	21.00	20.63	21.04	21.00	20.97
MAX	22.09	22.10	22.28	22.65	22.85	21.86	21.72	21.55	21.20	22.34	23.12	22.47
MIN	19.17	18.27	18.58	19.04	20.51	18.86	19.03	19.28	19.64	19.07	19.59	19.07

WTR YR 1984 MEAN 20.90 HIGH 23.12 AUG 6 LOW 18.27 NOV 1

TAMPA BAY AND COASTAL AREAS

02306200 LAKE MAGDALENE NEAR LUTZ, FL

LOCATION.--Lat 28°04'55", long 82°29'10", in NE¼ sec.3, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on west shore of lake, and 4.8 mi southwest of Lutz.

SURFACE AREA.--232 acres (0.36 mi²).

DRAINAGE AREA.--1.67 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--May 1946 to June 1974 (weekly), incomplete; July 1974 to September 1981, incomplete; October 1981 to September 1984 (twice weekly), discontinued. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 30.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to June 16, 1948, at site 0.25 mi northeast at same datum.

REMARKS.--Lake is the largest lake of the Sweetwater Creek headwaters chain of lakes. Outlet has small concrete control structure with removable boards. Elevation is affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 51.00 ft Mar. 20, 1960; minimum daily, 41.96 ft June 3, 23, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 49.58 ft Feb. 22; minimum daily, 47.38 ft June 25, 28.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.90	---	---	49.28	49.08	49.18	49.06	48.48	47.70	47.46	47.96	48.18
2	48.90	49.02	49.00	49.22	---	---	---	---	---	47.46	47.96	48.16
3	---	49.02	---	---	49.10	49.10	49.04	48.40	47.66	47.48	47.96	---
4	48.90	49.03	48.98	49.12	49.06	---	49.24	48.36	---	---	---	48.10
5	48.90	49.00	48.98	---	---	49.06	49.24	---	---	47.48	---	48.24
6	48.90	---	49.04	49.04	---	---	---	48.30	47.56	47.48	47.96	48.26
7	---	49.02	49.02	49.00	---	49.00	---	---	---	---	48.02	48.26
8	48.90	49.02	49.00	48.96	49.10	48.96	49.22	48.20	47.50	47.48	48.04	48.20
9	48.90	49.00	---	48.96	49.10	48.96	49.24	48.18	47.48	---	48.02	48.18
10	---	49.00	48.98	49.16	---	48.96	---	---	---	47.48	---	---
11	49.06	---	48.96	---	---	49.00	49.14	48.10	47.46	47.50	48.02	48.12
12	49.08	48.96	49.10	49.20	49.10	49.00	---	48.08	47.52	---	---	48.10
13	49.08	---	49.12	49.26	49.26	49.06	---	---	47.50	47.56	48.00	48.08
14	49.06	48.94	49.14	---	---	---	48.96	48.04	---	47.58	48.12	48.06
15	49.18	---	---	49.30	49.28	49.08	48.98	---	47.48	47.68	48.14	---
16	49.20	48.92	---	49.34	---	---	48.90	48.00	47.46	47.70	48.18	---
17	49.22	48.90	49.20	49.40	---	49.08	48.86	---	47.44	47.70	48.24	47.98
18	---	---	---	---	49.30	---	48.80	47.94	47.46	47.70	48.24	---
19	49.26	48.88	49.22	49.46	49.30	49.08	---	---	---	---	---	47.94
20	49.20	49.00	---	49.36	---	---	48.74	47.86	47.44	47.70	48.26	---
21	---	49.02	---	49.30	---	49.06	---	---	---	---	48.36	---
22	49.18	---	49.28	---	49.58	---	48.68	47.88	47.44	47.70	48.38	---
23	49.18	---	49.28	49.16	49.50	49.06	---	---	47.40	47.74	48.36	47.80
24	49.20	49.04	49.26	49.14	49.46	49.08	48.60	47.76	---	47.78	48.36	47.78
25	---	49.02	---	49.10	49.36	49.08	---	47.76	47.38	47.78	48.35	---
26	49.16	---	49.22	49.06	49.28	49.06	48.56	---	47.42	47.80	48.30	---
27	---	49.02	---	48.92	49.32	49.12	48.52	47.76	---	47.80	48.28	47.70
28	49.10	49.02	49.20	49.02	---	---	---	---	47.38	47.78	---	48.04
29	---	49.00	49.42	---	49.24	49.10	48.46	---	47.42	---	48.24	---
30	49.08	49.00	49.40	49.06	---	---	48.44	47.70	47.42	47.90	48.22	48.02
31	49.06	---	49.34	---	---	49.08	---	47.70	---	47.92	48.20	---

TAMPA BAY AND COASTAL AREAS

02306200 LAKE MAGDALENE NEAR LUTZ, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
19...	1235	.50	--	--	--	27.0	7.1
19...	1236	1.00	--	--	--	27.0	7.0
19...	1237	2.00	--	--	--	27.0	7.0
19...	1238	3.00	--	--	--	27.0	6.9
19...	1239	4.00	--	--	--	27.0	7.1
19...	1240	5.00	49.20	135	7.7	27.0	7.0
19...	1241	6.00	--	--	--	27.0	7.0
19...	1242	7.00	--	--	--	27.0	7.0
19...	1243	8.00	--	--	--	27.0	6.9
19...	1244	9.00	--	--	--	27.0	6.8
19...	1245	10.0	--	--	--	27.0	6.9
FEB							
03...	1050	--	49.10	139	--	17.0	--
MAR							
05...	1015	--	49.06	195	--	19.0	--
MAY							
30...	0940	.50	--	--	--	28.0	6.7
30...	0941	1.00	--	--	--	28.0	6.8
30...	0942	2.00	--	--	--	28.0	6.5
30...	0943	3.00	--	--	--	28.0	5.9
30...	0944	4.00	--	--	--	28.0	6.5
30...	0945	5.00	--	--	--	28.0	6.4
30...	0946	6.00	--	--	--	28.0	5.9
30...	0947	7.00	--	--	--	28.0	5.9
30...	0948	8.00	--	--	--	28.0	6.2
30...	0949	9.00	--	--	--	28.0	5.8
30...	0950	10.0	--	--	--	28.0	5.7
30...	0951	11.0	--	--	--	28.0	5.7
30...	0952	12.0	--	--	--	28.0	5.9
30...	0953	--	47.70	160	7.1	28.0	5.9
JUN							
26...	1230	--	47.42	150	--	30.0	--
AUG							
29...	1025	--	48.24	173	--	30.0	--

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT							
19...	<.010	.01	.030	.74	.040	.010	10
MAY							
30...	<.010	<.02	.010	.55	.020	.010	18

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

PHYTOPLANKTON ANALYSES

02306200 - LAKE MAGDALENE NR LUTZ, FLA.

DATE	TIME	CONVERTION FACTOR (95100)	TOTAL COUNT (CELLS/ML) (95200)	CHLOROPHYCEAE (96001)	CHLAMYDOMONAS (96014)	PHACOTUS (96028)	PEDIASTRUM (96197)	ANKISTRODESMUS (96202)	DICTYOSPHAERIUM (96209)	KIRCHNERIELLA (96215	TETRAEDRON (96226)
OCT											
19...	1240	14.0	19000	--	L28	--	--	L70	--	L42	--
MAY											
30...	0953	--	--	4200	--	350	L1	520	2400	--	22

TAMPA BAY AND COASTAL AREAS

02306600 LAKE CARROLL NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'58", long 82°29'08", in NE¼ sec.15, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 2.2 mi northwest of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

SURFACE AREA.--195 acres (0.30 mi²).

DRAINAGE AREA.--1.66 mi².

PERIOD OF RECORD.--May 1946 to August 1951 (incomplete); September 1951 to February 1952 (fragmentary); March 1952 to September 1956 (weekly), incomplete; October 1956 to December 1964 (three or four times weekly); January 1965 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-82-3A: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 30.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Apr. 4, 1952, at site 0.5 mi northeast at same datum; Apr. 4. 1952, to Mar. 28, 1957, at site 900 ft northeast at same datum; Mar. 28, 1957, to Nov. 21, 1972, at site 200 ft north at same datum.

REMARKS.--Lake is in the Sweetwater Creek headwaters chain of lakes. Outflow from lake is to White Trout Lake and is partially controlled by a culvert and stop logs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 40.08 ft on or about Sept. 25, 1947, from floodmark; minimum daily, 32.35 ft Mar. 20, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 36.21 ft Oct. 14; minimum daily, 34.82 ft June 10.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.12	35.94	35.82	36.10	36.06	36.14	35.88	35.62	35.06	35.10	35.90	35.98
2	36.10	35.92	35.82	36.10	36.04	36.12	35.84	35.60	35.06	35.10	35.90	35.96
3	36.06	35.90	35.80	36.08	36.04	36.12	35.82	35.58	35.04	35.10	35.92	35.94
4	36.04	35.90	35.78	36.08	36.02	36.08	35.82	35.56	35.00	35.15	35.92	35.90
5	36.00	35.88	35.88	36.06	36.00	36.08	36.00	35.54	34.98	35.15	35.92	36.00
6	35.98	35.86	35.86	36.06	35.98	36.06	35.98	35.52	34.94	35.20	35.92	36.04
7	35.96	35.86	35.86	36.06	35.96	36.06	35.98	35.52	34.92	35.20	36.00	36.04
8	35.94	35.88	35.84	36.04	35.96	36.04	35.96	35.45	34.88	35.20	36.00	36.04
9	36.00	35.88	35.82	36.04	35.94	36.04	35.96	35.48	34.86	35.26	35.98	35.88
10	35.98	35.88	35.81	36.20	35.92	36.02	35.94	35.44	34.82	35.26	36.00	35.86
11	36.20	35.86	35.98	36.18	35.90	36.00	35.92	35.40	34.90	35.44	35.98	35.84
12	36.20	35.86	35.98	36.16	35.88	35.98	35.90	35.38	34.90	35.62	35.98	35.82
13	36.20	35.84	35.98	36.18	35.88	35.98	35.90	35.36	34.89	35.62	35.96	35.80
14	36.21	35.84	36.00	36.18	35.98	35.96	35.88	35.34	34.88	35.60	35.96	35.78
15	36.20	35.82	36.00	36.16	35.98	35.96	35.88	35.30	34.86	35.60	36.00	35.76
16	36.18	35.82	36.00	36.16	35.96	35.94	35.86	35.26	34.86	35.60	36.00	35.74
17	36.18	35.80	36.08	36.16	35.96	35.94	35.86	35.22	34.90	35.60	36.00	35.74
18	36.18	35.80	36.08	36.14	35.96	35.92	35.86	35.18	34.90	35.60	36.00	35.72
19	36.16	35.78	36.06	36.14	35.94	35.92	35.84	35.14	34.90	35.70	35.98	35.70
20	36.16	35.78	36.06	36.14	35.94	35.90	35.84	35.10	34.90	35.70	35.98	35.68
21	36.14	35.90	36.04	36.16	35.94	35.88	35.84	35.08	34.90	35.70	35.98	35.66
22	36.14	35.90	36.04	36.16	36.08	35.88	35.80	35.12	34.90	35.70	36.00	35.64
23	36.12	35.90	36.02	36.16	36.08	35.86	35.78	35.18	34.90	35.70	36.10	35.62
24	36.12	35.89	36.00	36.14	36.06	35.86	35.76	35.18	34.90	35.72	36.10	35.60
25	36.10	35.89	35.98	36.14	36.06	35.84	35.74	35.16	34.88	35.74	36.12	35.56
26	36.08	35.88	35.96	36.12	36.06	35.96	35.72	35.14	34.88	35.76	36.12	35.54
27	36.06	35.88	35.96	36.12	36.04	35.96	35.70	35.12	34.88	35.78	36.10	35.52
28	36.04	35.86	35.94	36.10	36.14	35.94	35.68	35.10	34.88	35.80	36.08	35.82
29	36.00	35.86	35.94	36.10	36.14	35.92	35.66	35.08	34.86	35.82	36.06	35.84
30	35.99	35.84	36.10	36.08	---	35.92	35.64	35.08	35.10	35.82	36.04	35.84
31	35.96	---	36.10	36.08	---	35.90	---	35.08	---	35.86	36.00	---
MEAN	36.09	35.86	35.95	36.12	36.00	35.97	35.84	35.30	34.92	35.52	36.00	35.80
MAX	36.21	35.94	36.10	36.20	36.14	36.14	36.00	35.62	35.10	35.86	36.12	36.04
MIN	35.94	35.78	35.78	36.04	35.88	35.84	35.64	35.08	34.82	35.10	35.90	35.52

WTR YR 1984 MEAN 35.78 HIGH 36.21 OCT 14 LOW 34.82 JUN 10

TAMPA BAY AND COASTAL AREAS

02306704 LAKE HARVEY NEAR LUTZ, FL

LOCATION.--Lat 28°09'43", long 82°29'12", in SE¼ sec.3, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on south shore of lake, on private dock, 1.7 mi northwest of Lutz.

SURFACE AREA.--20.7 acres (0.03 mi^2).

DRAINAGE AREA.--1.7 mi^2, approximately.

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.93 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is connected by canals from Lake Joy and to Lake Virginia. Lake is near the Pasco County well field.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 63.28 ft Sept. 20, 1979; minimum, 58.19 ft May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 62.16 ft Jan. 1; minimum, 60.39 ft June 28-30, July 1.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.70	61.42	61.19	62.14	61.80	62.05	61.47	61.25	60.73	60.40	61.62	61.52
2	61.69	61.39	61.18	62.12	61.77	62.03	61.45	61.23	60.70	60.42	61.66	61.49
3	61.67	61.36	61.17	62.10	61.74	61.99	61.43	61.20	60.67	60.50	61.69	61.46
4	61.65	61.34	61.16	62.07	61.73	61.95	61.65	61.17	60.65	60.57	61.73	61.43
5	61.64	61.32	61.15	62.04	61.70	61.92	61.80	61.14	60.62	60.59	61.78	61.42
6	61.62	61.30	61.15	62.01	61.68	61.89	61.80	61.12	60.59	60.64	61.79	61.41
7	61.60	61.30	61.15	61.98	61.65	61.86	61.79	61.09	60.56	60.67	61.81	61.38
8	61.58	61.30	61.13	61.94	61.62	61.81	61.77	61.06	60.52	60.69	61.82	61.35
9	61.56	61.31	61.11	61.91	61.60	61.78	61.77	61.08	60.49	60.69	61.80	61.32
10	61.54	61.30	61.10	61.96	61.58	61.74	61.77	61.05	60.46	60.69	61.78	61.30
11	61.57	61.28	61.09	62.01	61.56	61.71	61.74	61.02	60.45	60.71	61.77	61.28
12	61.64	61.25	61.21	62.00	61.54	61.69	61.71	60.99	60.48	60.77	61.75	61.26
13	61.63	61.23	61.22	62.01	61.69	61.75	61.69	60.96	60.46	60.78	61.72	61.23
14	61.63	61.20	61.22	62.00	61.92	61.73	61.66	60.93	60.46	60.79	61.69	61.21
15	61.67	61.18	61.24	61.99	61.95	61.71	61.65	60.90	60.49	60.81	61.68	61.18
16	61.71	61.19	61.24	61.98	61.96	61.69	61.65	60.87	60.48	60.86	61.68	61.15
17	61.71	61.16	61.49	61.96	61.96	61.67	61.62	60.83	60.48	60.88	61.70	61.12
18	61.71	61.14	61.73	61.95	61.95	61.64	61.59	60.79	60.51	60.90	61.67	61.09
19	61.70	61.11	61.80	62.02	61.93	61.62	61.56	60.76	60.51	60.91	61.65	61.08
20	61.69	61.15	61.86	62.01	61.90	61.60	61.53	60.73	60.50	60.95	61.65	61.05
21	61.67	61.26	61.88	62.01	61.90	61.57	61.51	60.71	60.47	60.98	61.72	61.02
22	61.65	61.25	61.89	61.99	62.02	61.55	61.49	60.72	60.45	60.99	61.79	60.99
23	61.64	61.24	61.90	61.97	62.04	61.54	61.46	60.88	60.45	61.04	61.77	60.96
24	61.63	61.24	61.88	61.96	62.04	61.53	61.44	60.89	60.45	61.06	61.74	60.93
25	61.60	61.24	61.84	61.94	62.03	61.51	61.41	60.88	60.43	61.12	61.72	60.90
26	61.57	61.22	61.81	61.95	62.00	61.51	61.38	60.87	60.44	61.18	61.70	60.86
27	61.54	61.21	61.78	61.95	62.01	61.58	61.36	60.86	60.43	61.29	61.67	60.84
28	61.51	61.21	61.77	61.92	62.09	61.57	61.33	60.84	60.41	61.31	61.64	61.05
29	61.49	61.21	61.98	61.89	62.07	61.55	61.30	60.82	60.40	61.32	61.60	61.06
30	61.46	61.20	62.13	61.86	---	61.52	61.28	60.79	60.40	61.45	61.57	61.05
31	61.44	---	62.15	61.83	---	61.49	---	60.77	---	61.51	61.54	---
MEAN	61.62	61.25	61.50	61.98	61.84	61.70	61.57	60.94	60.50	60.89	61.71	61.18
MAX	61.71	61.42	62.15	62.14	62.09	62.05	61.80	61.25	60.73	61.51	61.82	61.52
MIN	61.44	61.11	61.09	61.83	61.54	61.49	61.28	60.71	60.40	60.40	61.54	60.84

WTR YR 1984 MEAN 61.39 HIGH 62.15 DEC 31 LOW 60.40 JUN 29 AND OTHERS

02306723 TURKEY FORD LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'55", long 82°32'16", in SE¼ sec.18, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 4.8 mi west of Lutz.

SURFACE AREA.--93.4 acres (0.15 mi^2).

DRAINAGE AREA.--9.8 mi^2, approximately.

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.30 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to May 19, 1971, at site 1,900 ft west at same datum.

REMARKS.--Lake is near the Lutz and Cosme well fields. Outflow from lake is through Rocky Creek south to Rock Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 54.93 ft June 27, 1974; minimum, 49.74 ft May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 52.58 ft (estimated) Dec. 30; minimum, 50.08 ft June 14.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.22	50.74	50.68	52.43	51.35	52.24	50.96	50.64	50.33	50.37	50.83	50.80
2	51.17	50.72	50.66	52.37	51.31	52.23	50.93	50.61	50.31	50.37	50.87	50.76
3	51.12	50.70	50.66	52.28	51.28	52.16	50.91	50.57	50.29	50.44	50.88	50.73
4	51.09	50.68	50.66	52.18	51.26	52.06	51.15	50.54	50.27	50.51	50.88	50.71
5	51.04	50.66	50.65	52.13	51.23	51.97	51.52	50.52	50.25	50.59	50.89	50.69
6	51.00	50.65	50.66	52.04	51.21	51.89	51.65	50.50	50.23	50.61	50.86	50.66
7	50.96	50.65	50.70	51.96	51.17	51.81	51.68	50.48	50.21	50.62	50.83	50.62
8	50.93	50.65	50.69	51.89	51.13	51.71	51.66	50.45	50.19	50.63	50.81	50.60
9	50.90	50.65	50.67	51.82	51.10	51.64	51.62	50.44	50.17	50.61	50.78	50.58
10	50.87	50.64	50.66	51.86	51.08	51.59	51.59	50.41	50.14	50.58	50.74	50.55
11	50.90	50.63	50.65	51.97	51.06	51.53	51.53	50.38	50.12	50.59	50.74	50.53
12	51.02	50.61	50.81	51.98	51.04	51.48	51.46	50.36	50.12	50.65	50.75	50.51
13	51.06	50.60	50.87	51.97	51.08	51.52	51.40	50.34	50.10	50.63	50.73	50.49
14	51.08	50.58	50.91	51.92	51.18	51.51	51.34	50.32	50.16	50.61	50.71	50.47
15	51.13	50.57	50.95	51.86	51.24	51.46	51.30	50.30	50.34	50.60	50.69	50.45
16	51.19	50.57	50.95	51.80	51.29	51.40	51.27	50.27	50.37	50.59	50.67	50.42
17	51.21	50.56	51.20	51.76	51.34	51.35	51.21	50.24	50.37	50.58	50.69	50.41
18	51.22	50.54	51.84	51.73	51.37	51.32	51.16	50.21	50.38	50.54	50.71	50.40
19	51.20	50.53	52.05	51.77	51.38	51.30	51.11	50.19	50.38	50.52	50.70	50.38
20	51.16	50.58	52.08	51.78	51.38	51.24	51.06	50.17	50.36	50.50	50.71	50.36
21	51.11	50.68	52.02	51.79	51.40	51.18	51.02	50.15	50.35	50.48	50.89	50.35
22	51.07	50.70	51.93	51.76	51.64	51.13	50.97	50.17	50.33	50.45	51.00	50.32
23	51.04	50.72	51.86	51.72	51.83	51.11	50.93	50.34	50.33	50.44	51.03	50.30
24	51.00	50.73	51.81	51.68	51.90	51.08	50.89	50.33	50.34	50.46	51.01	50.28
25	50.97	50.73	51.75	51.64	51.90	51.06	50.85	50.32	50.32	50.48	50.99	50.29
26	50.93	50.71	51.69	51.60	51.87	51.04	50.81	50.31	50.35	50.49	50.96	50.48
27	50.89	50.71	51.64	51.57	51.91	51.07	50.78	50.35	50.38	50.57	50.93	50.48
28	50.85	50.71	51.63	51.53	52.15	51.07	50.74	50.42	50.36	50.58	50.90	50.50
29	50.82	50.70	51.95	51.48	52.23	51.05	50.71	50.40	50.36	50.61	50.88	50.50
30	50.80	50.69	52.54	51.43	---	51.01	50.67	50.39	50.36	50.67	50.85	50.47
31	50.77	---	52.51	51.38	---	50.99	---	50.36	---	50.74	50.83	---
MEAN	51.02	50.65	51.30	51.84	51.42	51.46	51.16	50.37	50.29	50.55	50.83	50.50
MAX	51.22	50.74	52.54	52.43	52.23	52.24	51.68	50.64	50.38	50.74	51.03	50.80
MIN	50.77	50.53	50.65	51.38	51.04	50.99	50.67	50.15	50.10	50.37	50.67	50.28

WTR YR 1984 MEAN 50.95 HIGH 52.54 DEC 30 LOW 50.10 JUN 13

02306800 STARVATION LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'22", long 82°30'13", in NE¼ sec.21, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 3.2 mi southwest of Lutz.

SURFACE AREA.--50.4 acres (0.08 mi^2).

DRAINAGE AREA.--0.30 mi^2.

PERIOD OF RECORD.--June 1961 to November 1963 (weekly); December 1963 to current year. Records of elevations prior to October 1963 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 19, 1963, nonrecording gage at same site at datum 0.30 ft higher.

REMARKS.--Lake is landlocked and in the Lutz well field. Elevation is affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 54.55 ft Sept. 21, 1979, estimated; minimum, 40.23 ft July 27, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 53.16 ft Feb. 28, 29; minimum, 49.35 ft Sept. 27.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.64	52.23	51.85	52.59	52.68	53.14	52.58	51.75	51.30	50.56	50.30	50.11
2	52.63	52.21	51.83	52.61	52.66	53.13	52.55	51.70	51.25	50.53	50.29	50.09
3	52.61	52.18	51.81	52.61	52.64	53.11	52.52	51.70	51.20	50.52	50.27	50.06
4	52.57	52.15	51.79	52.60	52.64	53.09	52.55	51.65	51.15	50.50	50.24	50.02
5	52.55	52.13	51.78	52.59	52.62	53.07	52.75	51.65	51.15	50.50	50.25	50.00
6	52.52	52.11	51.79	52.58	52.60	53.06	52.90	51.60	51.10	50.45	50.24	49.99
7	52.50	52.09	51.83	52.56	52.55	53.04	53.00	51.60	51.10	50.40	50.26	49.96
8	52.47	52.10	51.81	52.54	52.51	53.01	52.95	51.55	51.05	50.45	50.29	49.93
9	52.45	52.10	51.78	52.52	52.49	52.98	52.90	51.55	51.05	50.45	50.27	49.90
10	52.42	52.08	51.76	52.60	52.48	52.95	52.80	51.50	51.00	50.40	50.24	49.87
11	52.46	52.07	51.75	52.68	52.46	52.92	52.70	51.50	51.03	50.45	50.23	49.85
12	52.53	52.04	51.87	52.69	52.45	52.91	52.60	51.45	51.03	50.40	50.21	49.82
13	52.51	52.01	51.87	52.72	52.56	52.95	52.55	51.45	51.00	50.35	50.19	49.80
14	52.51	51.99	51.86	52.72	52.78	52.94	52.50	51.40	50.97	50.30	50.17	49.77
15	52.55	51.97	51.87	52.72	52.83	52.91	52.55	51.40	50.95	50.35	50.18	49.74
16	52.59	51.95	51.85	52.72	52.84	52.89	52.50	51.35	50.94	50.30	50.16	49.71
17	52.59	51.92	51.96	52.71	52.83	52.87	52.45	51.35	50.91	50.30	50.15	49.68
18	52.58	51.90	52.11	52.71	52.81	52.84	52.40	51.30	50.88	50.28	50.14	49.65
19	52.56	51.87	52.18	52.76	52.72	52.82	52.35	51.30	50.86	50.27	50.12	49.63
20	52.54	51.92	52.22	52.77	52.78	52.79	52.30	51.30	50.85	50.26	50.11	49.60
21	52.52	52.01	52.23	52.75	52.80	52.77	52.25	51.30	50.80	50.24	50.22	49.56
22	52.49	51.99	52.23	52.77	52.96	52.74	52.20	51.30	50.75	50.21	50.30	49.53
23	52.47	51.98	52.23	52.77	53.03	52.73	52.15	51.50	50.80	50.19	50.28	49.50
24	52.46	51.97	52.22	52.76	53.05	52.72	52.10	51.45	50.75	50.23	50.26	49.47
25	52.43	51.95	52.18	52.76	53.04	52.71	52.05	51.40	50.70	50.23	50.26	49.43
26	52.40	51.92	52.14	52.76	53.03	52.70	52.00	51.40	50.67	50.23	50.29	49.40
27	52.37	51.90	52.12	52.77	53.06	52.72	51.95	51.45	50.65	50.28	50.26	49.37
28	52.34	51.89	52.12	52.75	53.15	52.70	51.90	51.40	50.61	50.26	50.23	49.57
29	52.31	51.88	52.28	52.74	53.15	52.67	51.85	51.40	50.59	50.24	50.20	49.57
30	52.28	51.86	52.47	52.72	---	52.64	51.80	51.35	50.58	50.28	50.17	49.55
31	52.26	---	52.55	52.70	---	52.61	---	51.35	---	50.28	50.14	---
MEAN	52.49	52.01	52.01	52.69	52.77	52.88	52.42	51.46	50.92	50.34	50.22	49.74
MAX	52.64	52.23	52.55	52.77	53.15	53.14	53.00	51.75	51.30	50.56	50.30	50.11
MIN	52.26	51.86	51.75	52.52	52.45	52.61	51.80	51.30	50.58	50.19	50.11	49.37

WTR YR 1984 MEAN 51.66 HIGH 53.15 FEB 28 AND OTHERS LOW 49.37 SEP 27

NOTE.--Record estimated Apr. 3 to June 10, June 20-25, July 4-17.

TAMPA BAY AND COASTAL AREAS

02307025 GLASS LAKE NEAR LAKE FERN, FL

LOCATION.--Lat 28°05'57", long 82°37'08", in SE¼ sec.29, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, and 4.4 mi southwest of Lake Fern.

SURFACE AREA.--16.7 acres (0.03 mi²).

DRAINAGE AREA.--0.23 mi².

PERIOD OF RECORD.--March 1976 to September 1981 (twice monthly), incomplete; October 1981 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is near Cosme well field.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 33.29 ft Sept. 18, 1979; minimum daily, 28.22 ft July 14, Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 32.70 ft Aug. 1; minimum daily, 31.81 ft June 11.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

Oct. 4	32.45
26	32.55
Dec. 9	32.38
Jan. 9	32.52
Feb. 7	32.39
Mar. 1	32.57
27	32.40
May 8	31.94
June 11	31.81
July 2	32.36
Aug. 1	32.70
Sept. 13	32.28

TAMPA BAY AND COASTAL AREAS

02307242 KEYSTONE LAKE NEAR ODESSA, FL

LOCATION.--Lat 28°08'10", long 82°35'48", in NW¼ sec.15, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on west shore of lake, on private dock, 0.6 mi southeast of junction State Highway 582 and Crawley Road, and 4.0 mi south of Odessa.

SURFACE AREA.--388 acres (0.61 mi²).

DRAINAGE AREA.--10 mi², approximately.

PERIOD OF RECORD.--April 1946 to September 1974, records for Brooker Creek near Odessa; October 1974 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 12, 1974, at site on north shore of lake 0.8 mi northeast at datum 30.00 ft higher; Sept. 13, 1971, to Sept. 9, 1974, supplementary nonrecording gage 0.7 mi northeast at datum 10.00 ft higher.

REMARKS.--Lake is at the headwaters of Brooker Creek. Since May 1955, flow in Brooker Creek regulated by vertical lift gates at control.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 43.60 ft Mar. 19, 1960; minimum, 37.88 ft May 31, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 41.93 ft Dec. 29; minimum observed, 40.10 ft May 21.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1[illegible] TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR		JUN	JUL	AUG	SEP
1	41.25	41.56	41.62	41.84	41.66	41.45	41.41	40.60	40.60	40.80	40.95	41.26
2	41.25	41.55	41.60	41.81	41.67	41.40	41.38	40.55	40.55	40.80	40.99	41.28
3	41.30	41.54	41.60	41.78	41.66	41.35	41.26	40.55	40.50	40.85	40.99	41.30
4	41.32	41.53	41.60	41.74	41.57	41.35	41.31	40.50	40.45	40.85	40.99	41.30
5	41.32	41.52	41.60	41.69	41.48	41.30	41.33	40.50	40.40	40.85	41.02	41.32
6	41.32	41.51	41.65	41.65	41.38	41.30	41.29	40.45	40.39	40.85	41.00	41.34
7	41.31	41.51	41.65	41.63	41.29	41.25	41.24	40.45	40.37	40.90	40.98	41.33
8	41.33	41.52	41.65	41.60	41.21	41.25	41.19	40.40	40.35	40.90	40.96	41.31
9	41.39	41.53	41.65	41.55	41.15	41.20	41.14	40.40	40.34	40.90	40.92	41.29
10	41.38	41.53	41.64	41.58	41.15	41.20	41.09	40.35	40.35	40.90	40.89	41.29
11	41.43	41.52	41.65	41.59	41.16	41.20	41.05	40.35	40.30	40.85	40.88	41.28
12	41.47	41.50	41.76	41.57	41.17	41.20	41.00	40.30	40.30	40.85	40.87	41.27
13	41.48	41.49	41.67	41.55	41.22	41.25	41.00	40.30	40.28	40.85	40.85	41.26
14	41.49	41.48	41.58	41.50	41.28	41.35	41.02	40.25	40.32	40.80	40.83	41.25
15	41.55	41.47	41.51	41.44	41.27	41.40	41.05	40.25	40.46	40.80	40.82	41.24
16	41.59	41.48	41.44	41.40	41.26	41.40	41.05	40.20	40.53	40.75	40.80	41.23
17	41.61	41.46	41.48	41.37	41.24	41.35	41.00	40.20	40.58	40.70	40.79	41.21
18	41.62	41.45	41.58	41.36	41.22	41.35	40.95	40.15	40.69	40.70	40.79	41.19
19	41.62	41.44	41.67	41.43	41.19	41.35	40.92	40.15	40.71	40.65	40.82	41.18
20	41.63	41.48	41.74	41.46	41.17	41.35	40.85	40.15	40.71	40.65	40.87	41.16
21	41.63	41.57	41.79	41.49	41.18	41.35	40.85	40.10	40.71	40.60	40.98	41.15
22	41.63	41.58	41.82	41.50	41.27	41.30	40.80	40.15	40.71	40.60	41.08	41.13
23	41.64	41.59	41.81	41.52	41.30	41.30	40.80	40.20	40.72	40.55	41.12	41.10
24	41.66	41.60	41.77	41.53	41.30	41.30	40.75	40.25	40.79	40.55	41.15	41.08
25	41.65	41.60	41.73	41.53	41.25	41.30	40.75	40.30	40.80	40.50	41.19	41.05
26	41.64	41.59	41.68	41.52	41.20	41.35	40.70	40.35	40.80	40.60	41.22	41.03
27	41.62	41.59	41.65	41.56	41.15	41.40	40.70	40.40	40.80	40.65	41.23	41.01
28	41.60	41.61	41.63	41.58	41.40	41.44	40.65	40.45	40.80	40.75	41.24	41.19
29	41.59	41.63	41.84	41.61	41.50	41.42	40.65	40.55	40.80	40.80	41.25	41.21
30	41.58	41.62	41.90	41.63	---	41.41	40.60	40.70	40.80	40.85	41.26	41.22
31	41.58	---	41.87	41.65	---	41.41	---	40.60	---	40.90	41.26	---
MEAN	41.50	41.53	41.67	41.57	41.31	41.33	40.99	40.36	40.56	40.76	41.00	41.22
MAX	41.66	41.63	41.90	41.84	41.67	41.45	41.41	40.70	40.80	40.90	41.26	41.34
MIN	41.25	41.44	41.44	41.36	41.15	41.20	40.60	40.10	40.28	40.50	40.79	41.01

WTR YR 1984 MEAN 41.15 HIGH 41.90 DEC 30 LOW 40.10 MAY 21

NOTE.--Record estimated Oct. 1-3, Dec. 2-8, Feb. 23 to Mar. 27, Apr. 20 to June 5, June 10-12, June 27 to Aug. 1.

TAMPA BAY AND COASTAL AREAS

02307388 BUCK LAKE NEAR LAKE FERN, FL

LOCATION.--Lat 28°06'31", long 82°37'16", in NE¼ sec.28, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 3.9 mi southwest of Lake Fern.

SURFACE AREA.--45 acres (0.07 mi²).

DRAINAGE AREA.--0.3 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--July 1972 to current year (twice weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical of 1929 (levels by Southwest Florida Water Management District). Prior to Dec. 17, 1982, at site 2,100 ft west at datum 14.69 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 34.63 ft June 27, 1974; minimum daily, 28.36 ft July 20, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 32.55 ft Dec. 30; minimum daily, 31.60 ft Sept. 21, 28.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	32.00	32.30	---	---	---	---	32.29	---
2	---	---	---	---	---	---	31.80	32.10	---	32.00	---	---
3	---	---	---	32.30	32.00	---	---	---	---	---	32.30	---
4	31.76	31.80	---	---	---	---	---	---	32.00	---	---	32.00
5	---	---	31.70	---	---	32.20	32.20	---	---	---	---	---
6	---	---	---	32.15	31.90	---	---	---	---	32.00	32.15	---
7	---	31.70	---	---	31.87	---	---	31.90	---	---	32.10	32.00
8	---	---	---	---	---	32.20	---	---	32.00	---	---	---
9	---	---	31.81	---	31.85	---	32.10	---	---	31.90	---	---
10	---	---	---	32.10	---	---	---	---	---	---	32.00	31.90
11	---	31.70	---	---	---	---	---	31.80	31.90	---	---	---
12	---	---	32.00	32.15	---	32.20	---	---	---	---	---	---
13	---	---	---	---	---	---	32.10	---	---	32.20	32.00	---
14	---	31.70	---	---	32.00	---	---	31.70	---	---	---	31.70
15	---	---	---	---	---	32.20	---	---	32.00	---	31.94	---
16	---	---	32.00	---	32.00	---	---	---	---	---	31.90	---
17	---	---	32.10	32.10	---	---	32.20	---	---	32.00	---	31.70
18	---	31.80	---	---	---	---	---	---	32.20	---	---	---
19	---	---	---	---	---	32.00	---	---	---	---	---	---
20	---	---	---	32.00	---	---	32.20	---	---	31.90	31.80	---
21	---	---	31.95	---	31.80	---	---	31.70	---	---	---	31.60
22	---	31.80	---	---	---	---	---	---	32.00	---	---	---
23	---	---	---	---	---	32.00	---	---	---	31.90	---	---
24	---	---	---	---	32.00	---	---	31.90	---	---	32.10	---
25	---	---	---	32.10	---	---	32.20	31.80	32.00	31.90	---	31.90
26	32.06	---	---	---	---	32.00	---	---	---	---	---	---
27	---	---	31.95	32.10	31.90	---	32.20	---	---	31.80	---	---
28	32.00	31.70	---	---	---	---	---	---	---	---	32.10	31.60
29	---	---	---	---	---	31.82	---	32.00	32.00	---	---	---
30	---	31.70	32.55	---	---	31.80	32.20	---	---	---	---	---
31	31.90	---	---	---	---	---	---	32.00	---	32.30	32.00	---

TAMPA BAY AND COASTAL AREAS

02307388 BUCK LAKE NEAR LAKE FERN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE (DEG C) (00010)
OCT				
04...	1320	31.76	100	28.0
DEC				
06...	1200	31.81	95	18.5
FEB				
07...	1057	31.87	129	14.0
MAR				
29...	1103	31.82	130	21.0
AUG				
07...	1133	32.10	139	22.0

AVAILABLE

02307479 LAKE TARPON NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°07'35", long 82°44'15", in NE¼ sec.19, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on west shore of lake, on structure to Lake Tarpon sink, 1.8 mi southeast of Tarpon Springs.

SURFACE AREA.--2,534 acres (3.96 mi²).

DRAINAGE AREA.--60 mi², approximately.

ELEVATION RECORDS

PERIOD OF RECORD.--March 1945 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Prior to Apr. 8, 1945, nonrecording gage, and Apr. 8, 1945, to July 16, 1946, water-stage recorder at datum 2.42 ft lower; July 17, 1946, to Dec. 16, 1947, water-stage recorder at site 0.7 mi southeast at Pinellas County fish hatchery at present datum; Dec. 16, 1947, to Apr. 15, 1980, water-stage recorder at site 2.4 mi southeast at Cobb's Acres at present datum.

REMARKS.--The major tributary to the lake is Brooker Creek. Since August 1971, lake levels controlled by structure S-551 with vertical lift gates in Lake Tarpon Canal. Prior to May 1969, outflow from lake occurred through sinkhole near the west shore, with salt-water intrusion occurring through underground formations; thereafter, sink isolated from lake by earthen dam with gated underdrain culverts. July 1967 to August 1971, lake levels partially affected by outflow through Lake Tarpon Canal; July 1967 to July 1969, outflow blocked by earthen dam, and August 1969 to August 1971, outflow controlled by gated underdrain culverts.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.08 ft Aug. 2, 1960, from floodmarks; minimum, 0.70 ft Feb. 26, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.64 ft Dec. 29; minimum, 2.36 ft June 23.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	3.31	3.31	3.37	3.21	3.01	3.11	2.92	2.55	2.70	2.53	2.74
2	3.12	3.30	3.30	3.45	3.22	3.07	3.08	2.91	2.52	2.72	2.65	2.76
3	3.13	3.29	3.30	3.46	3.24	3.13	3.04	2.91	2.52	2.78	2.69	2.80
4	3.13	3.28	3.30	3.25	3.24	3.19	3.18	2.89	2.51	2.85	2.69	2.84
5	3.13	3.29	3.30	3.10	3.25	3.25	3.25	2.88	2.50	2.93	2.78	2.97
6	3.13	3.28	3.32	3.10	3.23	3.29	3.23	2.88	2.50	3.00	2.82	3.01
7	3.13	3.30	3.34	3.10	3.23	3.29	3.21	2.87	2.49	3.02	2.85	3.04
8	3.12	3.30	3.32	3.10	3.23	3.29	3.21	2.85	2.47	3.02	2.85	3.04
9	3.11	3.30	3.30	3.12	3.23	3.29	3.23	2.83	2.46	3.02	2.73	3.02
10	3.11	3.30	3.29	3.14	3.23	3.30	3.22	2.80	2.45	2.96	2.63	3.03
11	3.17	3.28	3.30	3.16	3.24	3.30	3.20	2.78	2.44	2.56	2.65	3.04
12	3.19	3.26	3.36	3.16	3.25	3.32	3.18	2.76	2.43	2.57	2.67	3.05
13	3.21	3.24	3.13	3.14	3.32	3.40	3.16	2.75	2.41	2.63	2.68	3.06
14	3.23	3.24	3.05	3.06	3.26	3.42	3.15	2.74	2.40	2.74	2.69	3.06
15	3.31	3.23	3.13	3.00	3.06	3.42	3.15	2.72	2.41	2.88	2.70	3.05
16	3.39	3.22	3.16	3.07	3.06	3.41	3.13	2.71	2.43	3.00	2.71	3.05
17	3.39	3.21	3.25	3.14	3.09	3.39	3.11	2.69	2.42	3.03	2.74	3.09
18	3.36	3.20	3.36	3.20	3.12	3.39	3.10	2.66	2.41	3.02	2.75	3.12
19	3.25	3.20	3.38	3.28	3.14	3.39	3.09	2.64	2.41	3.03	2.78	3.28
20	3.23	3.26	3.31	3.31	3.16	3.39	3.08	2.62	2.40	3.04	2.84	3.29
21	3.23	3.35	3.31	3.36	3.20	3.37	3.07	2.61	2.40	3.04	2.93	3.27
22	3.25	3.36	3.34	3.38	3.33	3.35	3.06	2.62	2.39	3.06	2.86	3.25
23	3.39	3.35	3.36	3.36	3.36	3.33	3.05	2.78	2.38	2.83	2.55	3.23
24	3.42	3.36	3.35	3.15	3.32	3.29	3.02	2.79	2.54	2.90	2.57	3.21
25	3.33	3.35	3.32	3.00	3.27	3.26	3.01	2.80	2.62	2.98	2.65	3.19
26	3.31	3.33	3.31	3.07	3.30	3.23	3.00	2.81	2.63	2.63	2.68	3.16
27	3.31	3.33	3.31	3.13	3.43	3.29	2.99	2.85	2.63	2.89	2.71	3.14
28	3.31	3.32	3.34	3.15	3.30	3.28	2.97	2.94	2.63	2.94	2.71	3.24
29	3.31	3.33	3.50	3.17	3.06	3.19	2.95	2.93	2.64	2.85	2.72	3.03
30	3.31	3.32	3.06	3.19	---	3.16	2.94	2.84	2.66	2.83	2.73	3.09
31	3.31	---	3.24	3.20	---	3.13	---	2.67	---	2.67	2.73	---
MEAN	3.24	3.29	3.29	3.19	3.23	3.28	3.11	2.79	2.49	2.87	2.72	3.07
MAX	3.42	3.36	3.50	3.46	3.43	3.42	3.25	2.94	2.66	3.06	2.93	3.29
MIN	3.10	3.20	3.05	3.00	3.06	3.01	2.94	2.61	2.38	2.56	2.53	2.74

WTR YR 1984 MEAN 3.05 HIGH 3.50 DEC 29 LOW 2.38 JUN 23

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307479 LAKE TARPON NEAR TARPON SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-65, 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT											
04...	1235	3.13	1430	1500	6.8	--	28.0	--	8.4	--	--
17...	0830	3.39	--	1130	5.7	7.4	27.0	40	2.6	29	18
NOV											
09...	0745	3.30	810	798	--	--	21.5	--	--	--	--
DEC											
07...	1220	3.34	755	739	7.2	--	21.0	--	8.3	--	--
JAN											
12...	1450	3.17	805	800	--	--	12.5	--	--	--	--
FEB											
07...	1310	3.22	635	640	7.7	--	14.0	--	9.8	--	--
MAR											
07...	1221	3.29	978	940	--	--	19.0	--	--	--	--
APR											
03...	1245	3.04	938	890	7.5	--	21.5	--	8.4	--	--
MAY											
01...	1555	2.92	906	898	--	--	27.0	--	--	--	--
23...	1340	2.78	626	--	7.6	--	26.5	--	8.2	--	--
JUN											
06...	0853	2.49	1000	1030	6.5	--	26.5	--	7.8	--	--
JUL											
02...	1223	2.71	1060	1040	--	--	30.0	--	--	--	--
AUG											
13...	1530	2.68	1210	1210	7.1	--	30.0	--	7.4	--	--
SEP											
05...	1430	2.98	830	840	--	--	29.5	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
04...	--	--	--	380	--	--	--	.010	.14	.020	.69
17...	160	6.8	49	300	.20	2.8	655	--	--	--	--
NOV											
09...	--	--	--	200	--	--	--	--	--	--	--
DEC											
07...	--	--	--	180	--	--	--	<.010	.12	.020	.44
JAN											
12...	--	--	--	200	--	--	--	--	--	--	--
FEB											
07...	--	--	--	160	--	--	--	.010	.10	.010	.42
MAR											
07...	--	--	--	250	--	--	--	--	--	--	--
APR											
03...	--	--	--	240	--	--	--	.010	.23	.030	.70
MAY											
01...	--	--	--	230	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	270	--	--	--	<.010	.02	.030	.55
JUL											
02...	--	--	--	280	--	--	--	--	--	--	--
AUG											
13...	--	--	--	320	--	--	--	.020	.11	.040	.47
SEP											
05...	--	--	--	210	--	--	--	--	--	--	--

TAMPA BAY AND COASTAL AREAS

02307479 LAKE TARPON NEAR TARPON SPRINGS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)
OCT											
04...	.050	.030	--	--	--	--	--	--	--	--	--
17...	--	--	70	1	1	3	230	80	150	2	0
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	.060	.030	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	.060	.040	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	.080	.040	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	.050	.010	--	--	--	--	--	--	--	--	--
JUL											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG											
13...	.050	.030	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT										
17...	2	10	7	3	<.1	1	310	22	42	30
MAY										
23...	--	--	--	--	--	--	--	--	26	--

02307696 ALLIGATOR LAKE AT SAFETY HARBOR, FL

LOCATION.--Lat 27°58'45", long 82°41'45", in NW¼ sec.10, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on east shore of lake, on right upstream wingwall of concrete control structure, 30 ft upstream from bridge on Bayshore Drive, and 0.8 mi southwest of Safety Harbor.

SURFACE AREA.--76.4 acres (0.12 mi²).

DRAINAGE AREA.--9.0 mi², approximately.

PERIOD OF RECORD.--May 1948 to April 1959; October 1960 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey. Prior to October 1974, published as Alligator Creek at Safety Harbor.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Apr. 5, 1959, water-stage recorder at site of former control 160 ft upstream at datum 0.85 ft; Oct. 13, 1960, to May 16, 1970, at present site at datum 1.19 ft lower.

REMARKS.--Lake is formed by fixed concrete control structure at elevation 5.0 ft and earth embankment, completed in 1960. Prior to April 1959, concrete control at elevation 5.4 ft, 24-inch pipe and gate valve with invert at elevation 0.79 ft below NGVD, and earth embankment at site 160 ft upstream. Earth embankment was breached Apr. 5, 1959; elevation at gage subject to tide effect from Old Tampa Bay until structure was rebuilt.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.15 ft Sept. 6, 1950; minimum, 2.30 ft Oct. 13, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.69 ft Sept. 28; minimum, 4.94 ft May 19, 20.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.18	5.11	5.11	5.22	5.11	5.22	5.08	5.07	5.14	5.26	5.34	5.15
2	5.18	5.11	5.11	5.20	5.11	5.19	5.08	5.07	5.11	5.16	5.26	5.15
3	5.18	5.11	5.11	5.18	5.11	5.18	5.08	5.06	5.10	5.18	5.23	5.13
4	5.17	5.10	5.11	5.17	5.12	5.16	5.46	5.06	5.09	5.34	5.21	5.12
5	5.16	5.10	5.10	5.17	5.11	5.15	5.40	5.06	5.08	5.20	5.19	5.21
6	5.16	5.10	5.08	5.17	5.09	5.15	5.23	5.06	5.08	5.18	5.18	5.24
7	5.15	5.12	5.06	5.16	5.09	5.13	5.19	5.06	5.07	5.22	5.17	5.18
8	5.16	5.14	5.08	5.15	5.09	5.12	5.17	5.06	5.06	5.19	5.16	5.15
9	5.16	5.16	5.10	5.15	5.09	5.12	5.16	5.05	5.06	5.15	5.14	5.14
10	5.17	5.13	5.10	5.41	5.09	5.11	5.15	5.04	5.06	5.13	5.13	5.15
11	5.48	5.12	5.10	5.51	5.09	5.11	5.13	5.04	5.06	5.13	5.12	5.12
12	5.43	5.10	5.41	5.30	5.09	5.14	5.13	5.04	5.05	5.20	5.12	5.11
13	5.26	5.10	5.26	5.27	5.17	5.32	5.12	5.05	5.03	5.20	5.14	5.11
14	5.23	5.09	5.19	5.24	5.24	5.23	5.11	5.05	5.03	5.49	5.26	5.10
15	5.34	5.09	5.20	5.21	5.17	5.17	5.13	5.03	5.04	5.30	5.22	5.10
16	5.26	5.08	5.17	5.20	5.14	5.15	5.15	5.01	5.05	5.23	5.24	5.10
17	5.22	5.07	5.26	5.19	5.12	5.14	5.13	4.97	5.17	5.19	5.33	5.28
18	5.19	5.07	5.16	5.18	5.11	5.13	5.11	4.95	5.45	5.17	5.25	5.24
19	5.18	5.08	5.23	5.27	5.11	5.12	5.10	4.94	5.34	5.16	5.29	5.46
20	5.16	5.26	5.19	5.24	5.15	5.11	5.09	4.94	5.18	5.16	5.31	5.30
21	5.16	5.39	5.17	5.21	5.18	5.09	5.09	4.96	5.14	5.14	5.62	5.24
22	5.16	5.21	5.16	5.19	5.46	5.10	5.09	4.99	5.11	5.14	5.61	5.21
23	5.41	5.17	5.26	5.17	5.30	5.14	5.09	5.42	5.12	5.33	5.33	5.18
24	5.27	5.16	5.13	5.16	5.22	5.17	5.09	5.20	5.20	5.23	5.27	5.16
25	5.21	5.18	5.11	5.16	5.18	5.14	5.09	5.16	5.18	5.25	5.24	5.15
26	5.18	5.15	5.11	5.16	5.16	5.13	5.08	5.29	5.18	5.40	5.29	5.14
27	5.16	5.13	5.10	5.15	5.28	5.12	5.08	5.32	5.15	5.28	5.36	5.14
28	5.15	5.12	5.11	5.14	5.45	5.11	5.08	5.37	5.14	5.26	5.23	6.20
29	5.14	5.12	5.41	5.13	5.28	5.06	5.08	5.21	5.21	5.25	5.20	5.55
30	5.13	5.12	5.54	5.12	---	5.06	5.08	5.16	5.17	5.65	5.18	5.36
31	5.12	---	5.29	5.12	---	5.08	---	5.14	---	5.42	5.17	---
MEAN	5.21	5.13	5.18	5.20	5.17	5.14	5.13	5.09	5.13	5.24	5.25	5.23
MAX	5.48	5.39	5.54	5.51	5.46	5.32	5.46	5.42	5.45	5.65	5.62	6.20
MIN	5.12	5.07	5.06	5.12	5.09	5.06	5.08	4.94	5.03	5.13	5.12	5.10

WTR YR 1984 MEAN 5.18 HIGH 6.20 SEP 28 LOW 4.94 MAY 19 AND OTHERS

TAMPA BAY AND COASTAL AREAS

02308000 SAWGRASS LAKE NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°50'32", long 82°39'49", in SE¼ sec.26, T.30 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on outlet control structure, 110 ft west of Interstate 275, and 2.2 mi east of Pinellas Park.

SURFACE AREA.--21.0 acres (0.03 mi²).

DRAINAGE AREA.--3.97 mi².

PERIOD OF RECORD.--January 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake level regulated by concrete control structure.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.31 ft May 8, 1979; minimum, 0.80 ft (estimated) Apr. 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.22 ft Sept. 28; minimum, 3.18 ft Oct. 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.09	3.79	4.07	4.49	3.95	4.16	3.83	3.54	3.67	3.97	4.49	3.82
2	4.05	3.79	4.15	4.39	3.94	3.78	3.80	3.54	3.62	3.90	4.43	3.82
3	4.03	3.78	4.22	4.32	3.94	3.52	3.79	3.53	3.59	3.84	4.34	3.85
4	4.07	3.78	4.27	4.25	3.96	3.51	4.09	3.53	3.57	3.80	4.28	3.82
5	4.04	3.77	4.31	4.19	3.96	3.38	3.86	3.54	3.54	3.86	4.22	4.34
6	4.03	3.77	4.35	4.13	3.94	3.60	3.76	3.54	3.52	4.39	4.15	4.56
7	4.01	3.86	4.38	4.09	3.91	3.74	3.70	3.52	3.51	4.52	4.07	4.48
8	4.00	4.01	4.39	4.04	3.89	3.77	3.64	3.52	3.5[illegible]	4.69	4.03	4.37
9	3.98	4.00	4.35	4.01	3.87	3.78	3.62	3.51	3.47	4.57	3.97	4.25
10	4.05	3.97	4.20	4.33	3.85	3.79	3.62	3.50	3.45	4.47	3.91	4.17
11	4.89	3.94	4.09	4.60	3.84	3.79	3.58	3.49	3.45	4.36	3.87	4.08
12	4.79	3.90	4.57	4.53	3.83	3.89	3.53	3.48	3.69	4.27	3.86	4.00
13	4.57	3.8[illegible]	4.57	4.49	3.91	4.45	3.50	3.47	3.69	4.20	3.83	3.93
14	4.52	3.85	4.53	4.42	4.01	3.87	3.47	3.47	3.69	4.30	3.89	3.89
15	4.65	3.83	4.55	4.35	3.95	3.53	3.56	3.46	3.87	4.31	4.23	3.85
16	4.60	3.91	4.48	4.29	3.91	3.76	3.72	3.44	3.86	4.26	4.15	3.81
17	4.47	3.88	4.47	4.24	3.88	3.85	3.64	3.42	3.93	4.18	4.37	3.78
18	4.07	3.84	4.49	4.20	3.85	3.87	3.56	3.40	4.21	4.11	4.53	3.95
19	3.94	3.82	4.43	4.33	3.83	3.88	3.51	3.39	4.22	4.05	4.43	4.64
20	3.85	4.10	4.44	4.34	4.06	3.89	3.46	3.38	4.14	4.02	4.37	4.51
21	3.76	4.54	4.38	4.32	4.18	3.78	3.41	3.37	4.05	3.98	4.40	4.39
22	3.66	4.45	4.32	4.25	4.80	3.43	3.35	3.36	3.97	4.06	4.30	4.27
23	3.69	4.36	4.28	4.20	4.77	3.81	3.31	3.54	3.95	4.43	4.27	4.14
24	4.09	4.28	4.23	4.16	4.65	4.12	3.39	3.57	4.00	4.44	4.23	4.04
25	4.07	4.28	4.15	4.13	4.55	4.11	3.45	3.53	3.97	4.44	4.18	3.95
26	3.77	4.20	4.09	4.09	4.44	4.07	3.49	3.59	3.91	4.46	4.11	3.88
27	3.33	4.13	4.05	4.07	4.43	4.04	3.52	4.00	3.85	4.40	4.04	3.86
28	3.56	4.11	4.02	4.04	4.61	4.00	3.53	3.91	3.85	4.32	3.97	5.03
29	3.69	4.16	4.26	4.01	4.56	3.95	3.53	3.83	3.99	4.24	3.91	5.01
30	3.75	4.11	4.66	3.97	---	3.89	3.54	3.78	3.95	4.38	3.86	4.87
31	3.78	---	4.58	3.95	---	3.86	---	3.72	---	4.38	3.82	---
MEAN	4.06	4.30	4.33	4.23	4.11	3.83	3.59	3.54	3.79	4.25	4.15	4.18
MAX	4.89	4.54	4.66	4.60	4.80	4.45	4.09	4.00	4.22	4.69	4.53	5.03
MIN	3.33	3.77	4.02	3.95	3.83	3.38	3.31	3.36	3.45	3.80	3.82	3.78

WTR YR 1984 MEAN 4.01 HIGH 5.03 SEP 28 LOW 3.31 APR 23

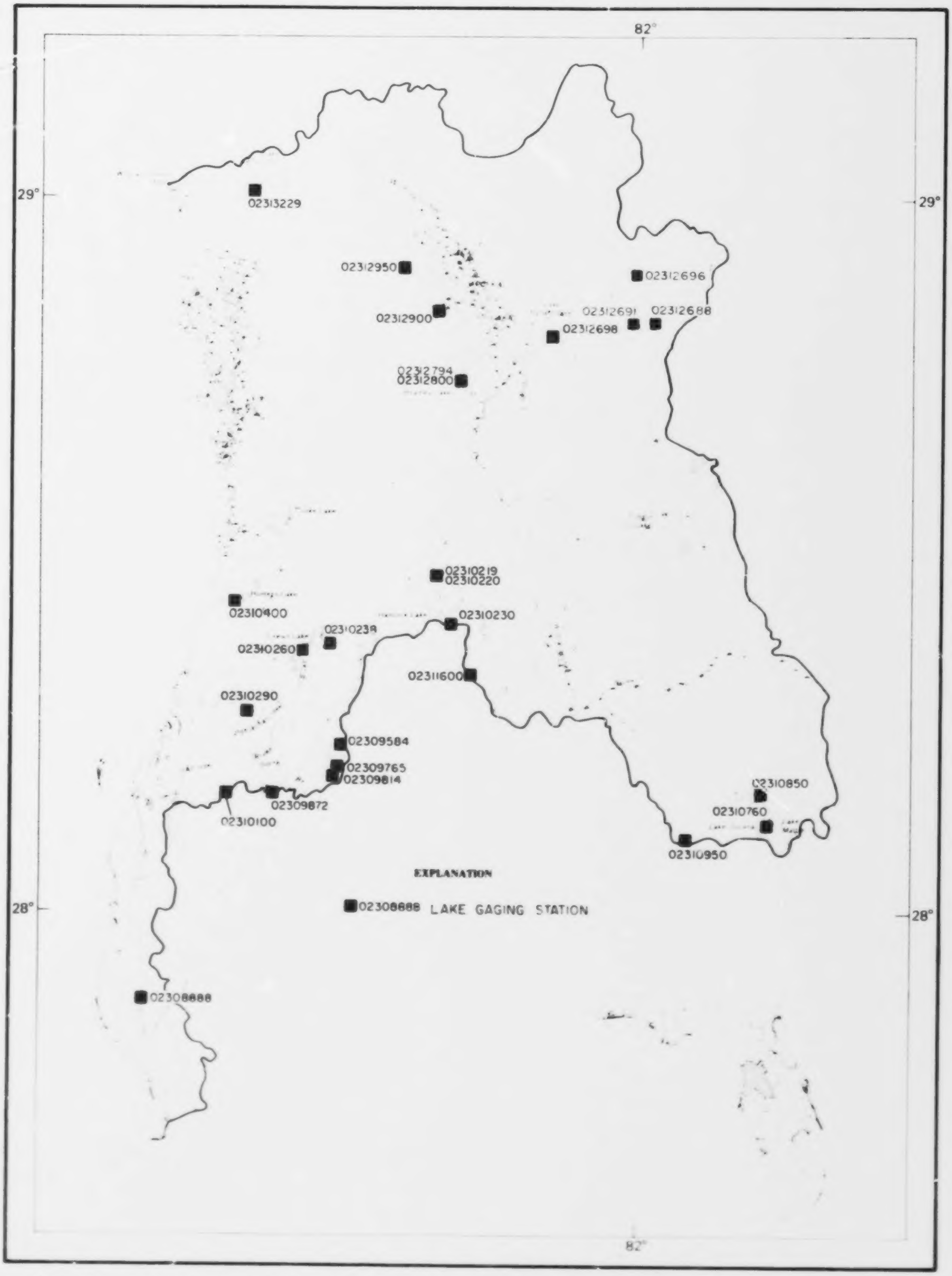

Figure 12. Location of lake gaging stations in the Withlacoochee River basin and coastal areas.

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308888 SEMINOLE LAKE NEAR LARGO, FL

LOCATION.--Lat 27°50'20", long 82°46'50", in SE¼ sec.27, T.30 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on south shore of lake, 250 ft west of highway bridge across spillway channel, and 5.2 mi south of Largo.

SURFACE AREA.--684 acres (1.07 mi²).

DRAINAGE AREA.--6.94 mi².

PERIOD OF RECORD.--August 1950 to September 1973; October 1973 to March 1974 (fragmentary); April 1974 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-79-3A: Surface area, drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Pinellas County bench mark).

REMARKS.--Outlet of lake is a 50 ft fixed concrete control structure with crest at average elevation of 5.0 ft. Greater part of inflow to Seminole Lake is regulated by pumps at north dam 3.0 mi above station. Pumpage at north dam represents natural flow of tributary above dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.22 ft June 26, 1974; minimum, 3.12 ft June 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.55 ft July 31; minimum, 3.99 ft June 14.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.94	4.81	4.95	5.04	4.92	5.05	4.89	4.71	4.37	4.22	5.23	4.90
2	4.93	4.80	4.94	5.02	4.91	5.02	4.86	4.67	4.31	4.19	5.15	4.93
3	4.94	4.78	4.92	5.00	4.90	5.01	4.82	4.60	4.28	4.19	5.12	4.98
4	4.94	4.76	4.93	4.99	4.91	5.00	4.88	4.58	4.25	4.26	5.13	4.95
5	4.93	4.77	4.94	4.98	4.91	4.96	4.93	4.58	4.22	4.35	5.09	5.03
6	4.93	4.76	4.94	4.98	4.91	4.95	4.91	4.58	4.17	4.41	5.06	5.05
7	4.92	4.77	4.94	4.98	4.87	5.00	4.89	4.57	4.13	4.49	5.03	5.03
8	4.90	4.79	4.90	4.98	4.85	4.96	4.86	4.57	4.10	4.49	5.02	4.99
9	4.89	4.81	4.88	4.97	4.84	4.94	4.84	4.57	4.08	4.48	5.00	4.96
10	4.89	4.80	4.87	5.09	4.84	4.93	4.88	4.56	4.06	4.47	4.97	4.98
11	5.03	4.81	4.85	5.16	4.84	4.91	4.87	4.56	4.05	4.46	5.11	4.97
12	5.01	4.79	5.20	5.10	4.84	4.93	4.86	4.56	4.04	4.46	5.16	4.95
13	5.01	4.77	5.13	5.09	4.88	5.09	4.85	4.55	4.04	4.52	5.10	4.94
14	5.03	4.76	5.09	5.07	4.93	5.07	4.84	4.54	4.04	4.66	5.07	4.92
15	5.11	4.74	5.11	5.04	4.92	5.04	4.87	4.53	4.14	4.92	5.05	4.90
16	5.08	4.78	5.07	5.03	4.91	5.01	4.91	4.52	4.17	5.13	5.02	4.88
17	5.05	4.75	5.08	5.02	4.91	5.00	4.89	4.51	4.20	5.07	5.03	4.94
18	5.03	4.72	5.09	5.01	4.90	4.98	4.87	4.50	4.34	5.04	5.04	5.03
19	5.00	4.70	5.07	5.09	4.89	4.96	4.85	4.49	4.37	5.03	5.03	5.41
20	4.98	4.79	5.05	5.06	4.93	4.92	4.84	4.48	4.36	5.01	5.03	5.25
21	4.97	4.98	5.02	5.05	4.96	4.94	4.83	4.47	4.35	4.99	5.08	5.15
22	4.95	4.98	5.01	5.00	5.19	4.92	4.81	4.45	4.33	4.98	5.10	5.08
23	4.93	4.97	5.01	4.98	5.16	4.97	4.80	4.50	4.31	5.00	5.08	5.04
24	4.95	4.96	5.01	4.97	5.09	5.00	4.83	4.51	4.31	5.02	5.06	5.00
25	4.93	5.00	4.95	4.98	5.07	4.98	4.80	4.49	4.29	5.07	5.03	4.97
26	4.90	4.96	4.88	4.99	5.02	4.99	4.77	4.52	4.28	5.16	5.01	4.94
27	4.88	4.95	4.86	4.98	5.04	4.94	4.76	4.64	4.27	5.11	4.98	4.93
28	4.85	4.96	4.84	4.98	5.16	4.91	4.75	4.60	4.24	5.07	4.96	5.29
29	4.84	4.98	5.03	4.97	5.11	4.96	4.74	4.51	4.22	5.10	4.93	5.21
30	4.83	4.96	5.18	4.95	---	4.92	4.72	4.47	4.20	5.46	4.91	5.13
31	4.82	---	5.10	4.95	---	4.90	---	4.41	---	5.29	4.90	---
MEAN	4.95	4.84	4.99	5.02	4.95	4.97	4.84	4.54	4.22	4.78	5.05	5.02
MAX	5.11	5.00	5.20	5.16	5.19	5.09	4.93	4.71	4.37	5.46	5.23	5.41
MIN	4.82	4.70	4.84	4.95	4.84	4.90	4.72	4.41	4.04	4.19	4.90	4.88

WTR YR 1984 MEAN 4.85 HIGH 5.46 JUL 30 LOW 4.04 JUN 12 AND OTHERS

NOTE.--Record estimated May 5 to June 6.

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309584 LAKE THOMAS AT DREXEL, FL

LOCATION.--Lat 28°14'14", long 82°28'08", in NE¼ sec.11, T.26 S., R.18 E., Pasco County, Hydrologic Unit 03100207, on south shore of lake, 0.6 mi southwest of Drexel.

SURFACE AREA.--162 acres (0.25 mi²).

DRAINAGE AREA.--1.0 mi², approximately.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 70.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 75.43 ft Sept. 23, 1969; minimum, 71.34 ft Aug. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 75.30 ft Aug. 1 (estimated); minimum, 73.46 ft June 14, 17.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.72	73.80	73.69	74.28	74.42	74.66	74.39	74.24	73.72	73.72	75.30	74.78
2	73.71	73.78	73.68	74.29	74.41	74.65	74.37	74.22	73.70	73.81	75.25	74.77
3	73.70	73.77	73.68	74.29	74.40	74.63	74.35	74.19	73.67	73.98	75.20	74.74
4	73.68	73.76	73.68	74.30	74.40	74.62	74.49	74.17	73.66	74.00	75.14	74.72
5	73.56	73.75	73.68	74.30	74.39	74.61	74.55	74.15	73.64	74.02	75.11	74.70
6	73.65	73.74	73.69	74.29	74.37	74.60	74.54	74.13	73.61	74.02	75.06	74.70
7	73.63	73.73	73.72	74.29	74.35	74.59	74.52	74.11	73.59	74.02	75.00	74.68
8	73.65	73.75	73.70	74.28	74.34	74.57	74.51	74.09	73.56	74.03	74.96	74.64
9	73.70	73.77	73.69	74.28	74.33	74.55	74.51	74.07	73.54	74.03	74.92	74.62
10	73.68	73.76	73.68	74.35	74.32	74.54	74.53	74.03	73.51	74.02	74.89	74.59
11	73.75	73.75	73.68	74.40	74.31	74.52	74.51	74.00	73.50	74.01	74.88	74.57
12	73.88	73.73	73.84	74.40	74.31	74.51	74.50	73.97	73.51	74.01	74.83	74.55
13	73.88	73.71	73.84	74.42	74.40	74.57	74.49	73.95	73.49	74.02	74.81	74.54
14	73.89	73.70	73.84	74.42	74.50	74.57	74.48	73.93	73.49	74.01	74.78	74.52
15	73.93	73.68	73.86	74.42	74.50	74.55	74.48	73.92	73.50	74.02	74.74	74.49
16	73.96	73.68	73.85	74.42	74.50	74.54	74.48	73.89	73.48	74.09	74.71	74.47
17	73.96	73.66	73.88	74.42	74.49	74.52	74.46	73.86	73.55	74.09	74.68	74.44
18	73.96	73.64	73.90	74.43	74.48	74.51	74.44	73.83	73.65	74.08	74.64	74.41
19	73.95	73.63	73.90	74.43	74.48	74.50	74.42	73.80	73.65	74.07	74.62	74.40
20	73.94	73.67	73.90	74.49	74.47	74.49	74.40	73.77	73.64	74.06	74.70	74.38
21	73.92	73.73	73.90	74.50	74.48	74.47	74.39	73.75	73.62	74.05	74.82	74.35
22	73.91	73.73	73.90	74.49	74.54	74.46	74.37	73.75	73.60	74.18	74.97	74.32
23	73.90	73.72	73.90	74.49	74.55	74.44	74.36	73.86	73.67	74.36	75.09	74.30
24	73.93	73.72	73.89	74.49	74.54	74.44	74.35	73.86	73.71	74.43	75.03	74.27
25	73.92	73.72	73.86	74.49	74.53	74.43	74.32	73.85	73.70	74.50	75.00	74.24
26	73.90	73.71	73.84	74.49	74.52	74.43	74.31	73.83	73.69	74.60	74.96	74.21
27	73.88	73.70	73.82	74.49	74.57	74.48	74.29	73.82	73.68	74.67	74.92	74.20
28	73.85	73.70	73.83	74.48	74.70	74.47	74.27	73.81	73.66	74.77	74.89	74.35
29	73.84	73.70	74.12	74.47	74.68	74.45	74.25	73.80	73.69	74.86	74.89	74.35
30	73.83	73.70	74.28	74.45	---	74.42	74.25	73.78	73.72	75.00	74.86	74.34
31	73.81	---	74.28	74.44	---	74.41	---	73.75	---	75.20	74.82	---
MEAN	73.82	73.72	73.84	74.40	74.46	74.52	74.42	73.94	73.61	74.22	74.92	74.49
MAX	73.96	73.80	74.28	74.50	74.70	74.66	74.55	74.24	73.72	75.20	75.30	74.78
MIN	73.63	73.63	73.68	74.28	74.31	74.41	74.25	73.75	73.48	73.72	74.62	74.20

WTR YR 1984 MEAN 74.20 HIGH 75.30 AUG 1 LOW 73.48 JUN 16

NOTE.--Record estimated July 1 to Aug. 28.

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310100 LAKE DAN NEAR ODESSA, FL

LOCATION.--Lat 28°10'00", long 82°38'55", in NW¼ sec.6, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100207, on northwest shore of lake, 3.7 mi southwest of Odessa.

SURFACE AREA.--36.7 acres (0.06 mi²).

DRAINAGE AREA.--0.6 mi², approximately.

ELEVATION RECORDS

PERIOD OF RECORD.--August 1965 to July 1966 (thrice weekly), incomplete; August 1966 to September 1971; October 1971 to September 1974 (four times weekly), incomplete; October 1974 to September 1981; October 1981 to current year (four times weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 18.29 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is in the Eldridge-Wilde well field. Elevation is affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 33.29 ft Feb. 7, 1970; minimum daily, 18.84 ft June 22, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 32.89 ft Mar. 1; minimum daily, 29.85 ft Sept. 27.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	31.03	---	32.07	---	32.89	32.47	32.23	31.33	30.65	30.39	30.41
2	30.63	---	30.73	---	32.75	---	32.47	---	---	30.61	30.39	---
3	30.62	30.95	---	32.17	---	---	32.43	32.17	31.21	30.55	---	---
4	30.63	---	30.75	---	32.75	32.87	---	---	31.24	---	30.37	30.43
5	30.61	30.91	---	32.23	---	---	---	---	---	30.59	30.37	---
6	30.61	---	---	---	32.75	---	32.59	32.01	31.15	---	---	30.49
7	---	---	30.89	---	32.73	32.81	---	---	---	30.55	30.37	---
8	30.61	30.85	30.91	32.23	32.73	32.81	32.59	31.97	31.07	---	---	30.41
9	---	30.89	---	32.25	---	---	---	31.83	---	30.47	30.37	30.39
10	30.65	---	30.93	---	32.71	32.81	32.59	---	31.01	---	30.37	---
11	---	30.87	30.97	32.29	---	32.81	---	---	---	30.39	---	30.37
12	---	30.82	31.11	---	32.71	---	32.57	31.75	30.93	30.37	30.37	---
13	30.69	---	---	32.47	---	32.77	---	---	---	---	30.35	30.33
14	30.71	30.77	31.17	---	32.73	---	32.57	31.73	---	30.35	30.35	30.29
15	---	---	---	32.51	---	---	---	---	30.89	30.33	---	---
16	30.75	30.75	31.13	---	32.71	32.73	32.59	31.69	30.91	30.17	30.39	30.21
17	30.91	30.69	---	32.55	32.69	---	32.59	31.51	30.95	30.23	30.39	---
18	---	---	---	---	---	32.67	---	---	30.97	30.17	---	30.17
19	30.95	30.67	---	32.59	32.69	---	---	31.47	30.93	30.11	30.39	30.15
20	---	---	31.49	---	---	---	32.53	---	30.91	30.11	30.47	30.09
21	30.97	30.71	---	32.65	---	32.59	---	---	---	---	30.59	---
22	---	---	31.57	---	32.79	---	32.49	31.41	30.79	30.05	---	29.99
23	30.99	---	---	---	---	32.59	---	---	30.83	---	30.59	29.97
24	---	30.73	31.61	32.73	32.77	32.57	32.43	31.57	30.85	---	30.59	29.95
25	31.03	30.69	31.61	---	---	32.55	---	---	30.81	30.09	30.57	---
26	---	---	---	32.81	32.73	---	32.39	31.47	30.81	---	---	29.87
27	31.05	30.69	31.61	---	---	---	---	---	30.77	30.17	30.51	29.85
28	31.05	---	---	32.81	32.75	32.57	32.35	31.47	30.75	---	30.49	---
29	---	---	31.61	32.79	32.87	---	32.33	---	30.69	30.23	---	30.07
30	31.07	30.71	32.01	---	---	32.53	---	31.39	30.67	30.29	30.45	30.05
31	---	---	---	32.77	---	32.49	---	31.35	---	30.31	---	---

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310100 LAKE DAN NEAR ODESSA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-71, 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET) (72020)	SPE-CIFIC CON-DUC-TANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)
OCT					MAY				
03...	1246	12.33	219	29.0	14...	1511	13.42	--	--
DEC					JUN				
12...	1305	12.82	242	20.0	04...	1310	12.95	231	28.5
FEB					AUG				
06...	1325	14.46	225	15.0	10...	1613	12.09	243	31.0
APR					SEP				
02...	1258	14.18	231	21.5	10...	1445	12.10	--	--

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310219 NEFF LAKE SINK NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°28'44", long 82°19'14", in SE¼ sec.17, T.23 S., R.20 E., Hernando County, Hydrologic Unit 03100207, in diked sinkhole area, at fish camp on east shore of lake, 6.3 mi southeast of Brooksville, and 9.0 mi east of Masaryktown.

DRAINAGE AREA.--5.08 mi².

PERIOD OF RECORD.--June 1971 to December 1974 (twice weekly), incomplete, January 1975 to current year (fragmentary). Records equivalent to Neff Lake since January 1965, except during extreme low water when dike separates sink from lake.

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS --Sink is isolated from Neff Lake by an earthen dike below elevation of 86.6 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 104.11 ft Mar. 22, 1984; sink dry for many days in 1969, 1972-74.

ELEVATION, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAR		
20...	1200	103.67	22...	1200	104.11
DEC			JUN		
01...	1130	103.12	26...	1150	103.29
JAN			AUG		
30...	1230	103.49	09...	1300	103.68

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310220 NEFF LAKE NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°28'44", long 82°19'17", in SE¼ sec.17, T.23 S., R.20 E., Hernando County, Hydrologic Unit 03100207, at fish camp on east shore of lake, 6.3 mi southeast of Brooksville, and 9.0 mi east of Masaryktown.

SURFACE AREA.--224 acres (0.35 mi²).

DRAINAGE AREA.--5.08 mi².

PERIOD OF RECORD.--January 1965 to March 1968 (twice weekly), incomplete, April 1968 to January 1970 (fragmentary), February 1970 to December 1974 (twice weekly), incomplete, January 1975 to current year (fragmentary).

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is interconnected with Mountain Lake during extreme high-water periods. Some outflow through sinkhole on east shore of lake; lake is isolated from sink by an earthen dike below elevation of 86.6 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 104.11 ft Mar. 22, 1984; lake dry for most of period May 1968 to September 1969.

ELEVATION, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAR		
20...	1200	103.67	22...	1200	104.11
DEC			JUN		
01...	1130	103.12	26...	1150	103.29
JAN			AUG		
30...	1230	103.49	09...	1300	103.68

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310238 PASCO LAKE AT LOYCE, FL

LOCATION.--Lat 28°23'05", long 82°29'20", in NE¼ sec.22, T.24 S., R.18 E., Pasco County, Hydrologic Unit 03100207, on outflow canal of lake, 300 ft east of U. S. Highway 41, 0.3 mi north of Loyce, and 4.4 mi southwest of Masaryktown.

SURFACE AREA.--10 acres (0.02 mi²).

DRAINAGE AREA.--43 mi², approximately.

ELEVATION RECORDS

PERIOD OF RECORD.--June 1977 to June 1980 (twice weekly), incomplete; July 1980 to current year (incomplete).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 17, 1980, nonrecording gage at same site at same datum. Supplementary gage at present site for low-water periods when elevation falls below 62.0 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 66.86 ft Oct. 1, 1979; lake dry at gage many days in 1981 and 1982.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 66.41 ft July 31, Aug. 1; minimum, 63.94 ft June 11.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.13	65.91	65.85	66.08	65.96	66.10	65.88	65.60	64.52	66.11	66.39	66.08
2	66.10	65.89	65.84	66.09	65.95	66.10	65.87	65.56	64.47	66.14	66.40	66.06
3	66.07	65.88	65.84	66.09	65.94	66.10	65.86	65.51	64.42	66.32	66.37	66.04
4	66.05	65.87	65.84	66.09	65.94	66.10	65.94	65.34	64.36	66.29	66.35	66.03
5	66.03	65.88	65.83	66.09	65.92	66.09	65.93	65.33	64.31	66.25	66.34	66.03
6	66.01	65.88	65.84	66.09	65.91	66.08	65.91	65.30	64.26	66.23	66.32	66.05
7	65.99	65.88	65.84	66.08	65.89	66.08	65.90	65.30	64.19	66.23	66.31	66.04
8	65.98	65.90	65.82	66.07	65.88	66.06	65.89	65.25	64.13	66.21	66.28	66.02
9	66.00	65.93	65.82	66.06	65.87	66.04	65.91	65.20	64.08	66.20	66.25	66.01
10	65.99	65.92	65.82	66.10	65.86	66.03	65.92	65.15	64.01	66.24	66.21	66.00
11	66.00	65.91	65.81	66.10	65.86	66.01	65.91	65.10	63.99	66.19	66.20	65.99
12	66.04	65.90	65.91	66.09	65.85	66.01	65.90	65.10	64.08	66.17	66.18	65.97
13	66.03	65.90	65.89	66.11	65.96	66.07	65.89	65.10	64.03	66.18	66.15	65.95
14	66.02	65.89	65.89	66.10	66.02	66.05	65.88	64.96	64.14	66.21	66.16	65.94
15	66.05	65.89	65.93	66.09	66.00	66.03	65.89	64.93	64.54	66.19	66.20	65.92
16	66.09	65.89	65.93	66.08	66.00	66.02	65.88	64.89	64.62	66.17	66.17	65.91
17	66.08	65.87	65.94	66.07	65.99	66.01	65.87	64.83	64.67	66.15	66.16	65.89
18	66.07	65.86	65.96	66.08	65.98	66.00	65.85	64.76	64.74	66.13	66.13	65.90
19	66.07	65.85	65.96	66.11	65.97	65.97	65.84	64.70	64.79	66.12	66.12	66.00
20	66.06	65.88	65.95	66.09	65.96	65.96	65.84	64.64	64.80	66.12	66.16	65.98
21	66.05	65.90	65.95	66.09	65.96	65.97	65.82	64.58	64.81	66.12	66.24	65.97
22	66.04	65.89	65.94	66.08	65.99	65.95	65.80	64.58	64.80	66.10	66.26	65.95
23	66.04	65.88	65.93	66.07	65.98	65.94	65.80	64.73	65.39	66.08	66.22	65.94
24	66.03	65.88	65.92	66.06	65.97	65.94	65.78	64.72	65.97	66.06	66.20	65.93
25	66.01	65.88	65.90	66.05	65.96	65.92	65.78	64.68	66.08	66.05	66.19	65.92
26	66.00	65.87	65.89	66.05	65.95	65.92	65.76	64.65	66.12	66.05	66.18	65.90
27	65.97	65.86	65.89	66.03	66.03	65.96	65.73	64.66	66.12	66.04	66.17	65.90
28	65.96	65.86	65.89	66.02	66.13	65.94	65.70	64.71	66.10	66.02	66.16	66.05
29	65.94	65.86	66.03	66.01	66.10	65.91	65.67	64.68	66.13	66.00	66.14	66.02
30	65.93	65.85	66.09	66.00	---	65.91	65.64	64.63	66.14	66.11	66.12	66.00
31	65.92	---	66.08	65.98	---	65.89	---	64.58	---	66.25	66.10	---
MEAN	66.02	65.88	65.90	66.07	65.96	66.01	65.84	64.96	64.83	66.15	66.22	65.98
MAX	66.13	65.93	66.09	66.11	66.13	66.10	65.94	65.60	66.14	66.32	66.40	66.08
MIN	65.92	65.85	65.81	65.98	65.85	65.89	65.64	64.58	63.99	66.00	66.10	65.89

WTR YR 1984 MEAN 65.82 HIGH 66.40 AUG 2 LOW 63.99 JUN 11

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310238 PASCO LAKE AT LOYCE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE (DEG C) (00010)
NOV				
01...	0854	65.91	46	23.0
JAN				
03...	1011	66.09	45	11.0
MAR				
01...	0759	66.10	46	13.0
APR				
30...	0823	65.64	58	26.0
MAY				
15...	0838	64.93	--	--
JUL				
05...	0917	66.25	65	27.0
AUG				
27...	0900	66.17	41	28.0
SEP				
11...	1030	65.99	--	--

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310260 CREWS LAKE (SOUTH) NEAR LOYCE, FL

LOCATION.--Lat 28°22'23", long 82°31'50", in NW¼ sec.29, T.24 S., R.18 E., Pasco County, Hydrologic Unit 03100207, 800 ft from southwest shore, 2.5 mi west of Loyce, 3.4 mi north of Fivay Junction, and 24.0 mi above the mouth of the Pithlachascotee River.

SURFACE AREA.--749 acres (1.17 mi²), includes north lake area.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--March 1964 to February 1965 (twice weekly), incomplete; March 1965 to June 1974 (fragmentary); May 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 30, 1974, nonrecording gage at site 1.8 mi northeast at same datum.

REMARKS.--Lake is in the headwaters of the Pithlachascotee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 56.60 ft Sept. 24, Oct. 3, 1964; lake dry at gage many days 1968, 1972-74.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 55.05 ft (estimated) Aug. 2; minimum, 52.06 ft May 21.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.57	53.53	52.98	53.50	53.59	53.74	53.24	52.62	52.43	54.40	55.00	54.77
2	54.60	53.48	52.96	53.51	53.56	53.74	53.21	52.59	52.40	54.50	55.05	54.72
3	54.53	53.44	52.94	53.51	53.53	53.73	53.18	52.54	52.37	54.65	55.04	54.66
4	54.46	53.40	52.92	53.51	53.51	53.72	53.23	52.51	52.35	54.63	55.02	54.61
5	54.39	53.38	52.91	53.51	53.49	53.70	53.25	52.48	52.32	54.60	55.00	54.56
6	54.32	53.37	52.91	53.51	53.45	53.69	53.23	52.46	52.28	54.58	55.00	54.54
7	54.26	53.34	52.94	53.50	53.42	53.68	53.20	52.43	52.26	54.55	55.00	54.49
8	54.19	53.34	52.91	53.50	53.39	53.66	53.17	52.40	52.23	54.53	54.95	54.44
9	54.15	53.32	52.89	53.49	53.35	53.63	53.17	52.42	52.20	54.50	54.95	54.38
10	54.16	53.30	52.88	53.55	53.32	53.61	53.18	52.40	52.16	54.55	54.90	54.32
11	54.13	53.28	52.86	53.59	53.29	53.58	53.17	52.37	52.14	54.50	54.85	54.26
12	54.12	53.25	53.00	53.61	53.26	53.57	53.14	52.34	52.16	54.45	54.85	54.20
13	54.10	53.21	53.01	53.64	53.38	53.65	53.11	52.31	52.14	54.47	54.85	54.15
14	54.08	53.18	53.01	53.66	53.53	53.65	53.09	52.28	52.12	54.52	54.80	54.09
15	54.11	53.15	53.07	53.66	53.53	53.63	53.08	52.25	52.30	54.53	54.85	54.03
16	54.17	53.14	53.08	53.66	53.52	53.59	53.08	52.23	52.30	54.50	54.85	53.98
17	54.16	53.11	53.10	53.66	53.50	53.56	53.05	52.19	52.29	54.45	54.85	53.90
18	54.13	53.09	53.12	53.68	53.48	53.53	53.02	52.16	52.30	54.39	54.80	53.90
19	54.09	53.06	53.12	53.72	53.46	53.50	52.99	52.13	52.29	54.35	54.80	53.85
20	54.05	53.08	53.13	53.75	53.44	53.48	52.96	52.09	52.27	54.31	54.80	53.95
21	54.01	53.13	53.13	53.76	53.43	53.48	52.93	52.08	52.25	54.28	54.85	53.95
22	53.96	53.12	53.12	53.76	53.45	53.45	52.90	52.12	52.23	54.23	54.90	53.95
23	53.92	53.10	53.12	53.75	53.45	53.44	52.87	52.23	52.77	54.19	54.95	53.90
24	53.88	53.09	53.10	53.74	53.44	53.42	52.84	52.23	53.75	54.14	54.90	53.90
25	53.83	53.08	53.09	53.73	53.42	53.38	52.81	52.23	54.05	54.15	54.90	53.90
26	53.79	53.06	53.06	53.73	53.40	53.37	52.78	52.35	54.40	54.20	54.85	53.85
27	53.75	53.04	53.04	53.71	53.48	53.40	52.75	52.40	54.45	54.20	54.85	53.85
28	53.69	53.02	53.04	53.70	53.70	53.37	52.72	52.52	54.45	54.15	54.85	53.90
29	53.65	53.01	53.24	53.68	53.73	53.33	52.69	52.51	54.45	54.15	54.85	53.95
30	53.61	53.00	53.46	53.65	---	53.31	52.65	52.49	54.45	54.55	54.80	54.00
31	53.57	---	53.49	53.62	---	53.28	---	52.47	---	54.80	54.80	---
MEAN	54.08	53.20	53.05	53.63	53.47	53.54	53.02	52.35	52.75	54.42	54.89	54.16
MAX	54.60	53.53	53.49	53.76	53.73	53.74	53.25	52.62	54.45	54.80	55.05	54.77
MIN	53.57	53.00	52.86	53.49	53.26	53.28	52.65	52.08	52.12	54.14	54.80	53.85

WTR YR 1984 MEAN 53.55 HIGH 55.05 AUG 2 LOW 52.08 MAY 21

NOTE.--Record estimated June 26 to July 12, July 25 to Aug. 30, Sept. 17-30.

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310290 MOON LAKE NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°17'07", long 82°37'00", in NW¼ sec.28, T.25 S., R.17 E., Pasco County, Hydrologic Unit 03100207, on west shore of lake, on private dock, 6.5 mi northeast of New Port Richey, and 6.5 mi north of Odessa.

SURFACE AREA.--98.2 acres (0.15 mi²).

DRAINAGE AREA.--0.37 mi².

PERIOD OF RECORD.--January 1965 to current year (thrice yearly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 10, 1973, at site 1,400 ft northwest on northwest shore of lake at same datum.

REMARKS.--Lake has no surface outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 40.94 ft Aug. 1, 3, 1984; minimum daily, 34.96 ft June 7, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 40.94 ft Aug. 1, 3; minimum daily, 39.46 ft June 13.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.30	---	---	40.16	---	40.38	---	---	39.74	---	40.94	40.40
2	40.20	39.82	39.78	---	40.16	---	40.14	39.90	---	39.98	---	---
3	40.24	---	---	40.14	---	40.34	---	---	39.66	---	40.94	40.40
4	40.18	39.78	39.76	40.14	40.14	---	40.30	39.84	39.65	40.12	---	---
5	40.20	---	---	40.12	---	---	---	---	39.62	40.38	40.86	40.40
6	40.16	39.78	39.76	---	40.10	40.30	40.26	39.80	---	40.38	---	---
7	---	---	---	40.10	---	---	---	---	39.58	---	40.79	40.42
8	40.14	39.78	39.74	---	40.08	40.28	40.22	39.76	---	40.36	40.76	---
9	---	---	---	40.10	40.06	---	---	39.84	39.54	---	---	40.56
10	40.08	39.82	39.72	---	---	40.26	40.26	---	---	40.32	40.74	---
11	---	---	---	40.18	40.06	---	---	39.80	39.48	---	---	40.53
12	40.08	39.80	39.86	---	---	40.22	40.24	---	---	40.32	40.66	---
13	---	---	---	40.20	---	---	---	39.74	39.46	---	---	40.48
14	40.08	39.78	39.84	---	40.20	40.30	40.20	---	---	40.58	40.60	---
15	---	---	---	40.20	---	---	---	39.70	39.54	---	---	---
16	40.12	39.78	39.90	---	40.18	40.26	40.20	39.66	---	40.60	40.60	40.40
17	---	---	---	40.20	---	---	---	---	39.52	---	---	40.38
18	40.10	39.74	40.00	---	40.16	40.22	40.18	39.60	---	40.56	40.58	---
19	---	---	---	40.26	---	---	---	---	39.58	---	---	40.36
20	40.06	39.70	40.00	---	40.16	40.20	40.12	39.54	---	40.52	40.54	---
21	---	---	---	40.26	---	---	---	---	39.54	---	---	40.30
22	40.00	39.80	40.00	---	40.26	40.20	40.08	39.50	---	40.48	40.62	---
23	---	---	---	40.24	---	---	---	---	---	---	---	---
24	40.00	39.78	39.98	---	40.24	40.20	40.06	39.66	39.96	40.50	40.58	40.22
25	39.98	---	39.94	40.22	40.24	40.18	40.04	39.50	39.96	---	---	---
26	---	39.80	---	---	---	---	40.02	---	---	40.50	40.54	40.18
27	39.92	---	39.92	40.20	40.20	40.22	---	39.80	40.00	---	---	---
28	---	39.80	---	---	---	---	39.98	---	---	40.78	40.50	40.30
29	39.88	---	40.10	40.20	40.38	40.20	---	39.80	40.00	40.74	---	---
30	---	39.80	---	---	---	---	39.94	39.76	40.00	---	40.46	40.28
31	39.86	---	40.18	40.18	---	40.18	---	---	---	40.90	40.42	---

02310400 HUNTERS LAKE NEAR ARIPEKA, FL

LOCATION.--Lat 28°26'40", long 82°37'40", in NW¼ sec.32, T.23 S., R.17 E., Hernando County, Hydrologic Unit 03100207, at fish camp on west shore of lake, 2.5 mi east of Aripeka, and 7.0 mi northeast of Hudson.

SURFACE AREA.--301 acres (0.47 mi²).

DRAINAGE AREA.--2.37 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--January 1965 to June 1966 (twice weekly), incomplete; May 1981 to September 1984, incomplete (discontinued).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 20.04 ft Aug. 26, 1984; minimum daily, 12.48 ft July 16, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 20.04 ft Aug. 26; minimum daily, 18.41 ft June 14.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.22	19.09	19.03	19.27	19.18	19.37	19.11	18.98	18.68	18.87	19.78	19.95
2	19.21	19.08	19.02	19.26	19.17	19.36	19.10	18.97	18.66	18.86	19.79	19.95
3	19.23	19.07	19.01	19.25	19.16	19.35	19.09	18.95	18.64	18.98	19.78	19.93
4	19.21	19.06	19.01	19.24	19.15	19.35	19.28	18.93	18.62	18.96	19.77	19.91
5	19.20	19.06	19.01	19.23	19.14	19.34	19.25	18.91	18.60	18.96	19.75	19.90
6	19.18	19.05	19.05	19.23	19.12	19.34	19.23	18.89	18.59	19.05	19.75	19.89
7	19.17	19.07	19.02	19.22	19.10	19.33	19.22	18.88	18.58	19.03	19.74	19.87
8	19.25	19.07	18.99	19.21	19.09	19.31	19.20	18.86	18.55	19.02	19.72	19.83
9	19.24	19.07	18.99	19.21	19.08	19.29	19.29	18.82	18.53	19.01	19.70	19.80
10	19.24	19.07	18.98	19.28	19.06	19.28	19.28	18.79	18.49	19.00	19.69	19.79
11	19.27	19.05	18.97	19.27	19.06	19.26	19.27	18.78	18.47	19.05	19.67	19.78
12	19.25	19.03	19.08	19.26	19.06	19.25	19.25	18.75	18.45	19.05	19.67	19.78
13	19.30	19.03	19.07	19.28	19.35	19.34	19.25	18.73	18.43	19.05	19.65	19.76
14	19.29	19.02	19.06	19.27	19.34	19.33	19.24	18.71	18.41	19.11	19.69	19.74
15	19.34	19.01	19.06	19.26	19.33	19.31	19.24	18.69	18.46	19.13	19.68	19.72
16	19.32	19.02	19.05	19.26	19.32	19.30	19.22	18.67	18.45	19.11	19.67	19.71
17	19.30	19.00	19.05	19.26	19.31	19.28	19.20	18.64	18.48	19.15	19.68	19.69
18	19.29	18.99	19.05	19.26	19.30	19.27	19.18	18.60	18.47	19.14	19.66	19.67
19	19.28	18.98	19.04	19.30	19.29	19.26	19.17	18.58	18.45	19.13	19.67	19.67
20	19.26	19.08	19.09	19.29	19.29	19.25	19.15	18.56	18.44	19.21	19.66	19.65
21	19.25	19.09	19.08	19.28	19.29	19.23	19.13	18.54	18.42	19.20	19.92	19.63
22	19.23	19.08	19.08	19.27	19.40	19.21	19.12	18.54	18.42	19.20	19.90	19.62
23	19.22	19.07	19.07	19.26	19.40	19.20	19.10	18.60	18.76	19.34	19.89	19.59
24	19.21	19.07	19.04	19.25	19.39	19.19	19.09	18.59	18.75	19.36	19.88	19.57
25	19.19	19.07	19.01	19.27	19.37	19.18	19.07	18.58	18.78	19.36	19.86	19.55
26	19.17	19.05	18.99	19.26	19.36	19.18	19.06	18.59	18.81	19.36	20.04	19.53
27	19.15	19.05	18.99	19.26	19.44	19.24	19.04	18.76	18.80	19.55	20.02	19.52
28	19.13	19.05	19.15	19.25	19.40	19.20	19.02	18.77	18.82	19.55	20.00	19.84
29	19.12	19.05	19.28	19.23	19.38	19.17	19.02	18.76	18.85	19.55	19.98	19.83
30	19.11	19.04	19.29	19.21	---	19.15	19.00	18.74	18.88	19.66	19.96	19.82
31	19.09	---	19.28	19.19	---	19.13	---	18.72	---	19.69	19.95	---
MEAN	19.22	19.05	19.06	19.25	19.25	19.27	19.16	18.74	18.59	19.18	19.79	19.75
MAX	19.34	19.09	19.29	19.30	19.44	19.37	19.29	18.98	18.88	19.69	20.04	19.95
MIN	19.09	18.98	18.97	19.19	19.06	19.13	19.00	18.54	18.41	18.86	19.65	19.52

WTR YR 1984 MEAN 19.19 HIGH 20.04 AUG 26 LOW 18.41 JUN 14

02310400 HUNTERS LAKE NEAR ARIPEKA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-66, 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET) (72020)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV						
03...	1258	19.06	110	6.9	25.5	4.3
JAN						
05...	0901	19.23	86	7.1	10.5	7.5
MAR						
06...	0823	19.36	100	7.3	19.5	6.4
MAY						
02...	0809	18.96	250	7.8	25.5	7.0
JUL						
09...	1214	19.02	145	7.6	26.0	6.8
AUG						
29...	1058	19.98	135	7.4	25.5	6.9

WITHLACOOCHEE RIVER BASIN

02310760 LAKE JULIANA NEAR POLK CITY, FL

LOCATION.--Lat 28°07'51", long 81°47'45", in SE¼ sec.15, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100208, on east shore of lake, at concrete-walled pumping station, 4 mi southeast of Polk City.

SURFACE AREA.--919 acres (1.44 mi²).

DRAINAGE AREA.--5.4 mi², approximately.

PERIOD OF RECORD.--December 1961 to September 1975; October 1975 to current year (weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to June 8, 1984, at datum 26.49 ft higher.

REMARKS.--Lake is one of a group of lakes in the southern part of an extensive area of swampy flatlands and sandy ridges at a relatively high elevation, called the Green Swamp. Streams that flow into five major drainage systems originate in or near the Green Swamp area. Lake is connected to Lake Mattie by a canal which tends to equalize the lake elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 132.92 ft Mar. 12, 1970; minimum observed, 126.20 ft May 7,14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 132.54 ft Mar. 7; minimum observed, 131.58 ft June 29.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	131.90	---
2	---	---	131.75	---	---	---	---	---	---	---	---	---
3	---	---	---	---	132.06	---	---	---	---	---	131.96	---
4	---	---	---	---	---	---	---	---	---	---	131.97	---
5	---	---	---	---	---	---	---	132.09	---	---	---	---
6	131.99	131.82	---	132.04	---	---	---	---	131.71	131.78	---	---
7	---	---	---	---	---	132.54	---	---	---	---	132.00	---
8	---	---	---	---	---	---	---	---	131.68	---	---	132.07
9	---	---	---	---	---	---	---	---	---	---	---	---
10	131.96	---	131.72	---	131.98	132.50	132.41	---	---	---	---	---
11	131.95	---	---	---	---	---	---	132.04	---	---	131.97	---
12	---	---	---	---	---	---	---	---	---	131.74	---	---
13	---	131.75	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	131.59	131.74	---	---
15	---	---	---	---	---	---	132.39	---	---	---	---	132.05
16	132.03	---	---	---	---	132.49	---	---	---	---	---	---
17	---	---	---	---	132.17	---	---	---	---	---	---	---
18	---	---	131.93	132.06	---	---	---	131.91	---	---	132.10	---
19	---	131.72	---	---	---	132.46	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	131.65	131.74	---	---
21	---	---	---	---	---	---	132.32	---	---	---	---	---
22	131.99	---	---	132.09	---	---	---	---	---	---	---	131.90
23	---	---	---	---	---	132.42	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	131.81	---	---
25	---	---	---	132.10	---	---	---	---	---	---	132.12	---
26	---	---	---	---	132.33	---	---	---	---	---	---	---
27	---	131.77	---	---	---	---	---	---	---	---	---	---
28	---	---	---	132.13	---	---	---	---	---	---	---	---
29	131.89	131.77	131.85	---	---	---	132.20	---	131.58	---	---	131.94
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	132.01	---	---	132.31	---	131.81	---	---	132.09	---

WITHLACOOCHEE RIVER BASIN

02310850 LAKE HELENE NEAR POLK CITY, FL

LOCATION.--Lat 28°10'25", long 81°48'21", in SW¼ sec.34, T.26 S., R.25 E., Polk County, Hydrologic Unit 03100208, on west shore of lake, on private pier at Camp Gilead, 1.3 mi southeast of Polk City.

SURFACE AREA.--54.4 acres (0.08 mi^2), at elevation 140.6 ft NGVD.

DRAINAGE AREA.--0.42 mi^2.

PERIOD OF RECORD.--March 1961 to April 1965; May 1965 to current year (twice weekly), incomplete.

REVISED RECORDS.--WRD FL 1962: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Oct. 19, 1961, nonrecording gage. Oct. 19, 1961 to Apr. 13, 1965, water-stage recorder and since Apr. 13, 1965, nonrecording gage at same site at different datums.

REMARKS.--Lake is one of a group of lakes in the southern part of an extensive area of swampy flatlands and sandy ridges at a relatively high elevation, called the Green Swamp. Streams that flow into five major drainage systems originate in or near the Green Swamp area. Lake is landlocked.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 145.86 ft Apr. 5,9, 1984; minimum observed, 138.54 ft May 11, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since 1948, 148.5 ft in September 1960, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 145.86 ft Apr. 5,9; minimum observed, 145.08 ft Dec. 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145.42	145.38	---	---	---	---	---	---	145.36	---	145.44	145.62
2	---	---	145.16	---	145.30	145.61	145.42	145.62	---	---	---	---
3	145.36	145.40	---	145.24	---	---	---	---	---	145.26	145.44	145.60
4	---	---	---	---	145.30	---	---	145.58	145.35	---	---	---
5	145.36	145.39	145.14	145.22	---	---	145.86	---	---	145.30	---	---
6	---	---	---	---	---	145.58	---	---	145.22	---	145.44	145.60
7	145.30	---	---	145.21	145.25	---	145.84	145.63	145.18	145.28	---	---
8	---	---	---	---	---	145.56	---	---	---	---	---	145.58
9	---	145.37	145.08	145.19	---	---	145.86	145.60	145.16	145.38	145.48	---
10	145.28	---	---	---	145.22	145.56	---	---	---	---	---	145.58
11	145.34	145.31	---	---	---	---	---	145.56	145.12	145.36	145.44	---
12	145.36	---	145.18	---	---	---	---	---	---	---	---	---
13	---	---	---	145.26	---	---	145.84	---	145.08	145.34	---	145.52
14	145.58	145.28	---	---	---	145.58	---	---	---	---	145.59	---
15	---	---	---	---	145.45	---	---	---	---	---	---	145.50
16	---	145.26	145.20	---	---	145.56	145.83	145.46	145.06	145.35	145.58	145.46
17	---	---	---	145.28	---	---	---	---	---	---	---	---
18	145.62	145.26	---	---	145.45	---	145.79	---	---	145.32	145.54	---
19	---	---	145.16	145.34	---	145.55	---	145.48	145.16	---	---	---
20	---	---	---	---	---	---	145.78	---	---	145.28	145.54	145.42
21	145.58	145.27	145.16	---	---	145.52	---	145.35	145.14	---	---	---
22	---	---	---	---	145.62	---	---	---	---	---	---	145.38
23	---	145.26	145.18	---	---	---	145.75	145.36	145.14	145.38	145.52	---
24	145.57	---	---	145.32	145.62	---	---	---	---	---	---	145.32
25	---	145.26	---	145.32	---	---	145.72	145.42	145.14	145.38	145.70	---
26	---	---	145.10	145.34	---	145.48	---	---	---	---	---	---
27	---	---	---	---	---	---	145.69	---	---	---	145.70	---
28	145.46	145.20	145.08	145.38	145.66	145.48	---	145.39	145.10	145.38	---	145.45
29	---	145.20	---	---	---	---	---	---	145.12	---	---	---
30	---	145.18	---	145.35	---	---	145.65	145.38	---	145.34	145.66	---
31	---	---	---	---	---	---	---	---	---	---	---	---

WITHLACOOCHEE RIVER BASIN

02310950 LAKE DEESON NEAR LAKELAND, FL

LOCATION.--Lat 28°06'37", long 81°55'51", in NW¼ sec.29, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100208, on south shore of lake, 5.0 mi northeast of intersection of U.S. Highways 92 and 98 in Lakeland.

SURFACE AREA.--116 acres (0.18 mi²).

DRAINAGE AREA.--0.96 mi².

PERIOD OF RECORD.--July 1954 to March 1960 (fragmentary), May 1965 to current year. Records of elevations prior to May 1965 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 118.21 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Oct. 17, 1957, nonrecording gage at same site at datum 20.25 ft higher and Oct. 17, 1957, to March 1960, at datum 20.79 ft higher.

REMARKS.--Lake is landlocked except at extreme high stages when flow is to the northeast to the headwaters of Gator Creek. Since Dec. 14, 1973, elevation of lake affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 135.49 ft Sept. 28, 1954; minimum daily, 119.81 ft May 24, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 128.51 ft Apr. 5; minimum daily, 127.19 ft Sept. 26,27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128.27	128.25	128.00	128.38	128.41	128.43	128.15	128.14	127.74	127.44	127.96	127.73
2	128.25	128.23	127.99	128.36	128.39	128.42	128.13	128.12	127.71	127.49	127.97	127.70
3	128.23	128.21	127.98	128.36	128.38	128.41	128.10	128.09	127.68	127.77	127.93	127.68
4	128.21	128.20	127.98	128.34	128.38	128.40	128.36	128.06	127.66	127.93	127.93	127.66
5	128.20	128.18	127.97	128.32	128.37	128.40	128.51	128.04	127.63	127.94	127.92	127.65
6	128.18	128.16	127.98	128.30	128.35	128.40	128.49	128.03	127.60	127.94	127.96	127.66
7	128.16	128.16	128.01	128.28	128.33	128.39	128.48	128.02	127.57	127.93	127.95	127.64
8	128.18	128.17	127.99	128.28	128.31	128.38	128.47	128.02	127.53	127.92	127.94	127.61
9	128.33	128.16	128.00	128.28	128.29	128.38	128.47	128.02	127.49	127.93	127.95	127.58
10	128.32	128.16	128.02	128.29	128.28	128.37	128.48	128.00	127.46	127.94	127.93	127.56
11	128.35	128.15	128.04	128.34	128.26	128.36	128.47	127.96	127.43	127.96	127.91	127.54
12	128.37	128.12	128.06	128.38	128.24	128.35	128.46	127.93	127.40	127.95	127.91	127.51
13	128.41	128.10	128.08	128.37	128.22	128.34	128.45	127.91	127.37	127.93	127.89	127.49
14	128.42	128.09	128.12	128.36	128.38	128.40	128.44	127.88	127.36	127.92	127.89	127.47
15	128.46	128.07	128.14	128.35	128.37	128.40	128.44	127.86	127.35	127.91	127.91	127.45
16	128.46	128.09	128.16	128.36	128.36	128.38	128.43	127.83	127.34	127.91	127.89	127.42
17	128.46	128.06	128.14	128.37	128.35	128.36	128.41	127.79	127.35	127.89	127.87	127.39
18	128.47	128.05	128.12	128.38	128.34	128.35	128.38	127.75	127.42	127.88	127.85	127.37
19	128.46	128.03	128.10	128.39	128.32	128.33	128.37	127.71	127.48	127.87	127.84	127.38
20	128.45	128.06	128.16	128.40	128.30	128.32	128.35	127.68	127.47	127.87	127.87	127.36
21	128.44	128.11	128.18	128.41	128.36	128.31	128.33	127.65	127.44	127.95	127.91	127.33
22	128.42	128.10	128.17	128.42	128.48	128.29	128.32	127.66	127.41	127.96	127.93	127.30
23	128.41	128.09	128.16	128.43	128.46	128.28	128.31	127.78	127.40	127.95	127.91	127.27
24	128.41	128.09	128.15	128.44	128.46	128.27	128.29	127.86	127.42	127.95	127.89	127.24
25	128.39	128.09	128.14	128.45	128.45	128.26	128.26	127.86	127.49	127.93	127.88	127.21
26	128.37	128.07	128.13	128.45	128.45	128.26	128.24	127.85	127.47	127.94	127.87	127.19
27	128.34	128.06	128.12	128.46	128.44	128.27	128.22	127.83	127.45	127.98	127.85	127.19
28	128.32	128.05	128.11	128.46	128.44	128.26	128.20	127.83	127.43	127.96	127.82	127.36
29	128.30	128.03	128.10	128.45	128.44	128.23	128.18	127.82	127.45	127.95	127.80	127.35
30	128.28	128.02	128.40	128.44	---	128.19	128.16	127.80	127.45	127.93	127.78	127.34
31	128.26	---	128.38	128.42	---	128.17	---	127.77	---	127.94	127.75	---
MEAN	128.34	128.11	128.10	128.38	128.37	128.33	128.34	127.89	127.48	127.90	127.89	127.45
MAX	128.47	128.25	128.40	128.46	128.48	128.43	128.51	128.14	127.74	127.98	127.97	127.73
MIN	128.16	128.02	127.97	128.28	128.22	128.17	128.10	127.65	127.34	127.44	127.75	127.19

CAL YR 1983 MEAN 128.32 MAX 129.17 MIN 127.38
WTR YR 1984 MEAN 128.05 MAX 128.51 MIN 127.19

02311600 CLEAR LAKE AT SAN ANTONIO, FL

LOCATION.--Lat 28°20'20", long 82°16'02", in SW¼ sec.1, T.25 S., R.20 E., Pasco County, Hydrologic Unit 03100208, on southwest shore of lake, on public pier, 0.5 mi northeast of San Antonio, and 5.0 mi west of Dade City.

SURFACE AREA.--158 acres (0.25 mi²).

DRAINAGE AREA.--0.92 mi².

PERIOD OF RECORD.--January 1965 to September 1966 (twice-weekly), incomplete, October 1966 to current year (weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 97.00 ft National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark); gage readings have been reduced to elevations NGVD. Prior to Mar. 31, 1971, at site 30 ft northwest at same datum.

REMARKS.--Lake has no surface outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 127.70 ft Aug. 17, 1965, Sept. 17, 1983; minimum observed, 123.52 ft May 6, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 127.20 ft Feb. 24; minimum observed, 126.47 ft June 23.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	126.80	---	---	126.90
2	---	---	126.85	---	---	127.08	---	---	---	---	---	---
3	---	---	---	---	126.86	---	---	---	---	---	127.15	---
4	127.16	126.90	---	---	---	---	---	126.90	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	127.10	---	---	127.05	---	---	126.75	---	---
7	127.10	---	---	---	---	---	---	---	---	---	---	126.75
8	---	---	---	---	---	---	---	---	---	---	127.08	---
9	---	---	126.80	---	---	127.00	---	---	126.68	---	---	---
10	---	---	---	---	---	---	---	---	---	---	127.00	---
11	---	127.00	---	---	126.85	---	---	126.90	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	127.05	---	---	126.90	---	---
14	127.15	---	---	127.10	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	126.68
16	---	---	127.00	---	---	126.98	---	---	126.60	---	---	---
17	---	---	---	---	127.05	---	---	---	---	---	126.94	---
18	---	126.75	---	---	---	---	---	126.80	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	126.96	126.90	---	---	126.95	---	---
21	127.10	---	---	127.05	---	---	---	---	---	---	---	126.75
22	---	---	---	---	---	---	---	---	126.60	---	---	---
23	---	---	127.00	---	---	126.90	---	---	126.47	---	---	---
24	---	---	---	---	127.20	---	---	---	---	---	127.10	---
25	---	126.90	---	---	---	---	---	126.90	---	---	---	---
26	---	---	---	127.08	---	---	---	---	---	---	---	---
27	---	---	---	127.04	---	---	126.95	---	---	126.95	---	---
28	126.90	---	---	---	---	---	---	---	126.75	---	---	126.88
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	126.88	127.15	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	126.90	---	---	---	---	---	---

WITHLACOOCHEE RIVER BASIN

02312688 LAKE DEATON NEAR WILDWOOD, FL

LOCATION.--Lat 28°49'42", long 81°58'51", in NW¼ sec.23, T.19 S., R.23 E., Sumter County, Hydrologic Unit 03100208, on south side of lake on private pier, 0.3 mi northwest of junction of State Highways 44 and 44A, and 4.3 mi southeast of Wildwood.

SURFACE AREA.--782 acres (1.2 mi²).

DRAINAGE AREA.--12.4 mi².

PERIOD OF RECORD.--April 1978 to current year (weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (National Oceanic and Atmospheric Administration bench mark).

REMARKS.--There is some pumpage from lake for irrigation purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 65.28 ft June 1, July 6, Aug. 3, 1984; minimum observed, 60.90 ft Dec. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 65.28 ft June 1, July 6, Aug. 3; minimum observed, 64.12 ft Oct. 6.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	64.34	---	---	---	---	---	65.28	---	---	---
2	---	---	64.34	---	---	64.74	---	---	---	---	---	---
3	---	---	---	---	64.74	---	---	---	---	---	65.28	---
4	---	64.34	---	---	---	---	---	64.90	---	---	---	---
5	---	---	---	---	---	---	64.88	---	---	---	---	---
6	64.12	---	---	64.76	---	---	64.88	---	---	65.28	---	---
7	64.14	---	---	---	---	---	---	---	---	---	---	65.10
8	---	---	---	---	---	---	---	---	65.18	---	---	---
9	---	---	64.30	---	---	64.70	---	---	---	---	---	---
10	---	---	---	---	64.76	---	---	---	---	---	65.18	---
11	---	64.30	---	---	---	---	---	64.88	---	---	---	---
12	---	---	---	---	---	---	---	---	65.10	---	---	---
13	---	---	---	64.76	---	---	65.04	---	---	65.16	65.10	---
14	64.48	---	---	---	---	---	---	---	---	---	---	64.76
15	---	---	---	---	---	---	---	---	65.10	---	---	---
16	---	---	64.41	---	---	64.70	---	---	---	---	---	---
17	---	---	---	---	64.70	---	---	---	---	---	65.10	---
18	---	64.36	---	---	---	---	---	64.74	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	64.76	---	---	65.06	---	---	65.14	---	---
21	64.44	---	---	---	---	---	---	---	---	---	---	64.76
22	---	---	---	---	---	---	---	---	65.06	---	---	---
23	---	---	64.62	---	---	64.66	---	---	---	---	---	---
24	---	---	---	---	64.78	---	---	---	---	---	65.20	---
25	---	64.36	---	---	---	---	---	64.96	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	64.80	---	---	64.94	---	---	65.17	---	---
28	64.36	---	---	---	---	---	---	---	---	---	---	64.85
29	---	---	---	---	---	---	---	---	65.18	---	---	---
30	---	---	64.76	---	---	64.60	---	---	---	---	---	---
31	---	---	---	64.72	---	---	---	---	---	---	65.16	---

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312691 LAKE OKAHUMPKA NEAR WILDWOOD, FL

LOCATION.--Lat 28°49'45", long 82°00'06", in SW¼ sec.15, T.19 S., R.23 E., Sumter County, Hydrologic Unit 03100208, on northeast side of lake on public pier, 1.5 mi west of junction of State Highways 44 and 44A, and 3.2 mi southeast of Wildwood.

SURFACE AREA.--973 acres (1.5 mi²).

DRAINAGE AREA.--49 mi², approximately, of which 5 mi² probably is noncontributing.

PERIOD OF RECORD.--April 1978 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 59.00 ft July 10, 1982; minimum observed, 55.28 ft July 10, Dec. 11,18,26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 58.08 ft June 1; minimum observed, 57.09 ft Oct. 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	57.24	---	---	---	---	---	58.08	---	---	---
2	---	---	57.25	---	---	57.50	---	---	---	---	---	---
3	---	---	---	---	57.50	---	---	---	---	---	57.84	---
4	---	57.24	---	---	---	---	---	57.44	---	---	---	---
5	---	---	---	---	---	---	57.61	---	---	---	---	---
6	57.10	---	---	57.72	---	---	57.58	---	---	57.67	---	---
7	57.09	---	---	---	---	---	---	---	---	---	---	57.38
8	---	---	---	---	---	---	---	---	57.84	---	---	---
9	---	---	57.23	---	---	57.46	---	---	---	---	---	---
10	---	---	---	---	57.38	---	---	---	---	---	57.58	---
11	---	57.20	---	---	---	---	---	57.38	---	---	---	---
12	---	---	---	---	---	---	---	---	57.65	---	---	---
13	---	---	---	57.62	---	---	57.75	---	---	57.65	57.55	---
14	57.24	---	---	---	---	---	---	---	---	---	---	57.28
15	---	---	---	---	---	---	---	---	57.60	---	---	---
16	---	---	57.48	---	---	57.42	---	---	---	---	---	---
17	---	---	---	---	57.42	---	---	---	---	---	57.48	---
18	---	57.14	---	---	---	---	---	57.22	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	57.58	---	---	57.62	---	---	57.66	---	---
21	57.25	---	---	---	---	---	---	---	---	---	---	57.18
22	---	---	---	---	---	---	---	---	57.55	---	---	---
23	---	---	57.50	---	---	57.38	---	---	---	---	---	---
24	---	---	---	---	57.60	---	---	---	---	---	57.63	---
25	---	57.24	---	---	---	---	---	57.50	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	57.60	---	---	57.54	---	---	57.62	---	---
28	57.22	---	---	---	---	---	---	---	---	---	---	57.25
29	---	---	---	---	---	---	---	---	57.50	---	---	---
30	---	---	---	---	---	57.36	---	---	---	---	---	---
31	---	---	---	57.54	---	---	---	---	---	---	57.50	---

WITHLACOOCHEE RIVER BASIN

02312696 LAKE MIONA NEAR OXFORD, FL

LOCATION.--Lat 28°54'21", long 82°00'19", in SE¼ sec.21, T.18 S., R.23 E., Sumter County, Hydrologic Unit 03100208, on north side of lake on private pier, 2.5 mi southeast of Oxford, and 3.7 mi northeast of Wildwood.

SURFACE AREA.--800 acres (1.2 mi^2), includes Black Lake but excludes Cherry Lake.

DRAINAGE AREA.--38 mi^2, approximately, of which 10 mi^2 probably is noncontributing.

PERIOD OF RECORD.--April 1978 to current year (weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 56.60 ft Oct. 1, 1982; minimum observed, 49.74 ft May 4, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 56.22 ft Aug. 24; minimum observed, 55.54 ft Nov. 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.64	---	55.70	---	---	---	---	---	56.00	---	---	---
2	---	---	55.66	---	---	55.90	---	---	---	---	---	---
3	---	---	---	---	55.90	---	---	---	---	---	56.00	---
4	---	55.54	---	---	---	---	---	55.80	---	---	---	---
5	---	---	---	---	---	---	56.04	---	---	---	---	---
6	55.62	---	---	55.98	---	---	56.00	---	---	55.98	---	---
7	55.60	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	55.92	---	---	---
9	---	---	55.70	---	---	55.84	---	---	---	---	---	---
10	---	---	---	---	55.82	---	---	---	---	---	55.96	---
11	---	55.56	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	56.00	---	---	56.04	---	---	55.96	55.97	---
14	55.74	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	55.80	55.98	---	---	55.98
16	---	---	55.90	---	---	55.80	---	---	---	---	---	---
17	---	---	---	---	55.92	---	---	---	---	---	55.98	---
18	---	55.56	---	---	---	---	---	55.78	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	55.98	---	---	55.98	---	---	55.94	---	---
21	55.70	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	56.00	---	---	55.76
23	---	---	55.96	---	---	55.84	---	---	---	---	---	---
24	---	---	---	---	55.94	---	---	---	---	---	56.22	---
25	---	---	---	---	---	---	---	55.98	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	55.68	---	56.00	---	---	55.86	---	---	55.94	---	---
28	55.60	---	---	---	---	---	---	---	---	---	---	55.78
29	---	---	---	---	---	---	---	---	56.00	---	---	---
30	---	---	56.06	---	---	55.78	---	---	---	---	---	---
31	---	---	---	55.94	---	---	---	---	---	---	56.08	---

WITHLACOOCHEE RIVER BASIN

02312698 LAKE PANASOFFKEE NEAR LAKE PANASOFFKEE, FL

LOCATION.--Lat 28°49'01", long 82°08'40", in SE¼ sec.19, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, on west shore of lake, 0.8 mi north of outlet, 4.6 mi west of Coleman, and 5.1 mi northwest of town of Lake Panasoffkee.

SURFACE AREA.--4,821 acres (7.53 mi^2).

DRAINAGE AREA.--420 mi^2, approximately.

PERIOD OF RECORD.--April 1955 to November 1962 (about weekly), December 1962 to current year. Records of elevations prior to October 1962 are available in files of the Geological Survey. Records for Outlet River at Panacoochee Retreats (station 02312700).

REVISED RECORDS.--WDR FL-72-3: Drainage area, surface area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Dec. 18, 1962, nonrecording gage and Dec. 18, 1962, to Oct. 7, 1975, water-stage recorder at sites within 0.8 mi south at same datum.

REMARKS.--Outflow from lake is through Outlet River to Withlacoochee River; lake level affected at times by the stage of Withlacoochee River. Prior to 1962, lake level partially controlled during low water by small rock dams and at times during 1962 to 1964 by a temporary sheet piling dam in Outlet River.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 44.28 ft Apr. 5, 1960; minimum daily, 37.65 ft May 12, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 40.43 ft Aug. 2; minimum daily, 39.35 ft Sept. 26,27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.25	39.68	39.76	40.01	39.57	39.71	39.62	39.51	40.23	40.09	40.41	39.78
2	40.22	39.70	39.76	39.99	39.56	39.69	39.62	39.52	40.21	40.14	40.43	39.74
3	40.18	39.70	39.75	39.96	39.55	39.67	39.62	39.51	40.19	40.25	40.41	39.67
4	40.13	39.71	39.73	39.93	39.60	39.66	39.84	39.49	40.17	40.28	40.39	39.62
5	40.10	39.71	39.73	39.90	39.64	39.65	39.90	39.57	40.14	40.29	40.35	39.57
6	40.07	39.70	39.71	39.88	39.65	39.63	39.93	39.66	40.11	40.30	40.32	39.57
7	40.03	39.72	39.68	39.84	39.68	39.59	39.94	39.68	40.07	40.30	40.30	39.57
8	39.99	39.74	39.67	39.81	39.70	39.58	39.96	39.68	40.03	40.29	40.27	39.54
9	39.96	39.74	39.66	39.78	39.72	39.55	40.04	39.65	39.98	40.27	40.24	39.52
10	39.94	39.74	39.65	39.79	39.74	39.53	40.12	39.65	39.94	40.26	40.20	39.54
11	39.98	39.71	39.65	39.75	39.75	39.52	40.10	39.64	39.91	40.27	40.18	39.54
12	40.09	39.70	39.76	39.74	39.76	39.52	40.06	39.61	39.87	40.25	40.17	39.54
13	40.07	39.70	39.78	39.73	39.85	39.52	40.02	39.60	39.83	40.24	40.15	39.54
14	40.04	39.70	39.80	39.73	39.97	39.51	39.97	39.57	39.82	40.23	40.14	39.54
15	40.02	39.70	39.84	39.71	39.97	39.49	39.94	39.55	39.79	40.21	40.14	39.54
16	39.99	39.70	39.86	39.70	39.95	39.51	39.90	39.53	39.78	40.20	40.15	39.53
17	39.97	39.69	39.85	39.68	39.91	39.54	39.86	39.51	39.80	40.17	40.15	39.50
18	39.95	39.69	39.86	39.67	39.88	39.57	39.81	39.48	39.83	40.13	40.13	39.49
19	39.92	39.69	39.86	39.68	39.84	39.59	39.78	39.45	39.81	40.13	40.11	39.48
20	39.89	39.74	39.91	39.67	39.80	39.62	39.74	39.42	39.78	40.13	40.15	39.47
21	39.86	39.80	39.92	39.65	39.77	39.62	39.69	39.41	39.76	40.13	40.25	39.47
22	39.86	39.80	39.93	39.66	39.81	39.65	39.66	39.43	39.75	40.19	40.32	39.45
23	39.87	39.81	39.92	39.67	39.80	39.66	39.61	39.63	39.81	40.18	40.29	39.42
24	39.85	39.80	39.87	39.66	39.79	39.66	39.56	39.65	39.90	40.16	40.24	39.40
25	39.81	39.77	39.84	39.66	39.76	39.65	39.54	39.72	39.91	40.12	40.18	39.38
26	39.76	39.78	39.86	39.67	39.75	39.65	39.51	39.93	39.91	40.10	40.13	39.35
27	39.71	39.77	39.86	39.66	39.76	39.69	39.51	40.04	39.89	40.12	40.07	39.35
28	39.67	39.76	39.86	39.65	39.70	39.68	39.51	40.17	39.88	40.10	40.00	39.52
29	39.67	39.78	39.98	39.63	39.67	39.61	39.52	40.20	39.95	40.08	39.95	39.53
30	39.68	39.77	40.05	39.61	---	39.64	39.52	40.23	40.04	40.11	39.89	39.55
31	39.68	---	40.04	39.58	---	39.64	---	40.23	---	40.23	39.83	---
MEAN	39.94	39.73	39.82	39.74	39.76	39.61	39.78	39.67	39.94	40.19	40.19	39.52
MAX	40.25	39.81	40.05	40.01	39.97	39.71	40.12	40.23	40.23	40.30	40.43	39.78
MIN	39.67	39.68	39.65	39.58	39.55	39.49	39.51	39.41	39.75	40.08	39.83	39.35

CAL YR 1983 MEAN 40.01 MAX 40.95 MIN 38.88
WTR YR 1984 MEAN 39.83 MAX 40.43 MIN 39.35

WITHLACOOCHEE RIVER BASIN

02312794 LITTLE LAKE AT FLORAL CITY, FL

LOCATION.--Lat 28°44'51", long 82°17'17", in NE¼ sec.15, T.20 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on north shore of lake, on private pier, 0.6 mi east of Floral City.

SURFACE AREA.--57.6 acres (0.09 mi²).

DRAINAGE AREA.--1.40 mi².

PERIOD OF RECORD.--September 1975 to current year (twice weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Outflow from lake is through a canal to Lake Tsala Apopka. Lake level is controlled by culvert with removable boards at State Highway 48; flow is occasionally reversed.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 42.16 ft Sept. 28, 1979; minimum observed, 35.04 ft Nov. 13, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 40.96 ft Oct. 15; minimum observed, 39.52 ft Sept. 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	40.76	---	---	---	---	---	40.00	39.86	---	---	---
2	---	---	40.57	---	---	40.58	---	---	---	---	---	---
3	---	---	---	40.60	40.50	---	40.25	---	---	40.18	---	---
4	40.95	40.75	---	---	---	---	---	40.10	---	---	40.24	39.91
5	---	---	---	---	---	---	---	---	39.77	---	---	---
6	---	---	40.50	40.57	---	40.56	40.34	---	39.76	40.26	---	---
7	40.86	---	---	---	40.45	---	---	---	---	---	---	39.92
8	---	40.70	---	---	---	---	---	40.00	39.70	---	40.16	---
9	---	---	40.50	---	---	---	---	---	---	---	---	---
10	---	---	---	40.60	40.40	40.50	40.45	---	---	40.28	40.12	---
11	40.80	---	---	---	---	---	---	39.96	---	---	---	39.83
12	---	40.62	---	---	---	---	---	---	39.68	---	---	---
13	---	---	40.60	40.59	---	40.49	---	---	---	---	---	---
14	---	---	---	---	40.64	---	40.35	---	39.66	40.20	40.05	39.75
15	40.96	40.59	---	---	---	---	---	39.85	---	---	---	---
16	---	---	40.61	---	---	40.42	---	---	---	---	---	---
17	---	---	---	40.59	40.60	---	40.35	---	---	40.16	39.98	---
18	40.94	40.56	---	---	---	---	---	39.75	---	---	---	39.70
19	---	---	---	---	---	---	---	---	39.64	---	---	---
20	---	---	40.59	40.60	---	40.37	40.27	---	---	40.12	---	---
21	40.88	---	---	---	40.56	---	---	---	---	---	40.16	39.60
22	---	40.65	---	---	---	---	---	39.65	39.66	---	---	---
23	---	---	40.56	---	---	40.34	---	---	---	---	---	---
24	---	---	---	40.60	---	---	40.20	---	---	40.10	40.10	---
25	40.90	40.60	---	40.61	40.58	---	---	39.85	---	---	---	39.52
26	---	---	---	---	---	---	---	---	39.68	---	---	---
27	---	---	40.56	40.58	---	40.30	40.08	---	---	40.18	---	---
28	40.82	---	---	---	40.60	---	---	---	---	---	40.07	39.64
29	---	40.61	---	---	---	40.24	---	39.90	39.80	---	---	---
30	---	---	40.68	---	---	---	---	---	---	---	---	---
31	---	---	---	40.54	---	---	---	---	---	40.26	40.00	---

WITHLACOOCHEE RIVER BASIN

02312800 TSALA APOPKA LAKE AT FLORAL CITY, FL

LOCATION.--Lat 28°45'03", long 82°16'49", in NW¼ sec.14, T.20 S., R.20 E., Citrus County, Hydrologic Unit 03100208, at extreme south end of lake, 50 ft northwest of bridge on Duval Road at entrance to The Canal, and 1.0 mi east of Floral City.

SURFACE AREA.--About 19,000 acres (30 mi^2).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1957 to April 1958 (weekly), incomplete, August 1958 to September 1975, October 1975 (weekly), November 1975 to current year (thrice weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Apr. 20, 1971, near present site at same datum.

REMARKS.--Tsala Apopka Lake borders along the west bank of the Withlacoochee River and consists of many lakes and sloughs, some connected and some not.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 44.22 ft Mar. 29, 1960; minimum observed, 35.24 ft June 20, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 41.90 ft Oct. 3, occurred on recession following crest in September 1983; minimum observed, 40.38 ft June 22.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	41.44	---	---	---	40.80	---	41.12	---
2	---	41.08	40.78	41.04	---	41.24	41.02	41.06	---	40.76	---	---
3	41.90	---	---	---	41.40	---	---	---	---	---	41.16	41.38
4	---	41.06	---	41.08	---	---	41.16	40.94	40.74	41.00	---	---
5	41.82	---	40.76	---	---	41.24	---	---	---	---	---	41.38
6	---	---	---	41.12	41.36	---	41.12	---	40.68	40.98	41.18	---
7	41.76	41.04	40.76	---	---	41.26	---	41.06	---	---	---	---
8	---	---	---	---	41.30	---	---	---	40.62	---	41.18	---
9	---	41.06	40.68	41.18	---	41.26	41.06	41.02	---	40.96	---	---
10	41.60	---	---	---	41.28	---	---	---	---	---	41.20	41.22
11	---	41.04	---	41.22	---	---	41.22	40.96	40.52	40.90	---	---
12	41.60	---	40.76	---	---	41.26	---	---	---	---	---	41.18
13	---	---	---	41.30	41.22	---	41.16	---	40.48	40.88	41.26	---
14	41.62	40.94	40.72	---	---	41.30	---	40.86	---	---	41.28	41.16
15	---	---	---	---	41.42	---	---	---	40.42	---	41.28	---
16	---	40.90	40.76	41.38	---	41.30	41.12	40.86	---	40.84	---	---
17	41.48	---	---	---	41.38	---	---	---	---	---	41.28	41.08
18	---	40.86	---	41.40	---	---	41.14	40.66	40.46	40.88	---	---
19	41.48	---	40.78	---	---	41.28	---	---	---	---	---	41.06
20	---	---	---	41.42	41.30	---	41.16	---	40.40	40.78	41.30	---
21	41.36	40.92	40.80	---	---	41.30	---	40.62	---	---	---	41.02
22	---	---	---	---	41.32	---	---	---	40.38	---	41.50	---
23	---	40.88	40.86	41.44	---	41.24	41.10	40.66	---	40.86	---	---
24	41.30	---	---	---	41.28	---	41.10	---	---	---	41.48	40.96
25	---	40.88	---	41.46	---	---	41.09	40.78	40.50	40.86	---	---
26	41.24	---	40.90	---	---	41.14	---	---	---	---	---	40.90
27	---	---	---	41.46	41.20	---	41.08	---	40.56	40.92	41.48	---
28	41.16	40.90	40.92	---	---	41.14	---	40.80	---	---	---	41.00
29	---	---	---	---	41.28	---	---	---	40.70	---	41.46	---
30	---	40.82	41.04	41.42	---	41.10	41.04	40.84	---	40.98	---	---
31	41.10	---	---	---	---	---	---	---	---	---	41.42	---

WITHLACOOCHEE RIVER BASIN

02312900 TSALA APOPKA LAKE AT INVERNESS, FL

LOCATION.--Lat 28°50'39", long 82°19'21", in SE¼ sec. 8, T.19 S., R.20 E., Citrus County, Hydrologic Unit 03100208, on southwest bank of narrows in west-central section of lake, near southwest end of bridge on State Highway 470, and 0.8 mi northeast of Inverness.

SURFACE AREA.--About 19,000 acres (30 mi²).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July to December 1957 (weekly), incomplete, August 1958 to September 1975, October 1975 (weekly), November 1975 to current year (thrice weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 6, 1958, at site about 1 mi west on south shore of cove at same datum.

REMARKS.--Tsala Apopka Lake borders along the west bank of the Withlacoochee River and consists of many lakes and sloughs, some connected and some not.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 42.94 ft Apr. 4,5, 1960; minimum observed, 32.30 ft July 10, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 40.40 ft Oct. 14,17,19; minimum observed, 38.90 ft June 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	40.08		---	---	39.98	---	39.40	---
2	---	40.18	40.26	40.34	---		---	39.60	---	39.40	---	---
3	40.24	---	---	---	40.02		---	---	---	---	39.40	39.60
4	---	40.16	---	40.32	---		---	39.60	---	39.40	---	---
5	40.24	---	40.20	---	---		40.08	---	39.80	---	---	39.60
6	---	---	---	40.30	40.06		40.10	---	39.70	39.70	39.50	---
7	40.24	40.16	40.20	---	---		---	40.30	---	---	---	39.66
8	---	---	---	---	40.08		---	---	39.60	---	39.48	---
9	---	40.20	40.18	40.30	---		40.10	40.20	---	39.60	---	---
10	40.24	---	---	---	40.10		---	---	---	---	39.50	39.64
11	---	40.18	---	40.32	---		40.20	40.20	39.46	39.56	---	---
12	40.30	---	40.28	---	---		---	---	---	---	---	---
13	---	---	---	40.32	---		40.20	---	39.38	39.56	39.50	---
14	40.40	40.15	40.28	---	---		---	40.16	---	---	---	39.60
15	---	---	---	---	---		---	---	39.30	---	39.50	---
16	---	40.16	40.30	40.30	---		40.20	40.16	---	39.44	---	---
17	40.40	---	---	---	---		---	---	---	---	39.48	39.56
18	---	40.14	---	40.28	---		40.12	40.10	39.25	39.36	---	---
19	40.40	---	40.30	---	---		---	---	---	---	---	39.56
20	---	---	---	40.28	---		40.10	---	39.20	39.30	39.50	---
21	40.38	40.28	40.28	---	---		---	40.00	---	---	---	39.56
22	---	---	---	---	---		---	---	39.00	---	39.50	---
23	---	40.26	40.26	40.26	---		40.00	40.10	---	39.26	---	---
24	40.30	---	---	---	---		---	---	---	---	39.50	39.50
25	---	40.26	---	40.24	---		40.00	40.10	39.00	39.26	---	---
26	40.28	---	40.26	---	---		---	---	---	---	---	39.50
27	---	---	---	40.22	---		---	---	38.90	39.26	39.50	---
28	40.24	40.26	40.26	---	---		---	40.10	---	---	---	39.70
29	---	---	---	---	---		---	---	39.30	---	39.60	---
30	---	40.28	40.36	40.14	---		39.80	40.00	---	39.28	---	---
31	40.20	---	---	40.10	---		---	---	---	---	39.60	---

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312950 TSALA APOPKA LAKE AT HERNANDO, FL

LOCATION.--Lat 28°54'08", long 82°22'30", in SE¼ sec.23, T.18 S., R.19 E., Citrus County, Hydrologic Unit 03100208, on southwest shore of west bay near northwest end of lake, on public pier at Hernando.

SURFACE AREA.--About 19,000 acres (30 mi²).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1936 to April 1950 (monthly), incomplete, July 1957 to July 1958 (weekly), incomplete, August 1958 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 19, 1957, at datum 36.60 ft higher and July 19, 1957, to Jan. 12, 1971, at three different sites in the immediate vicinity, at present datum.

REMARKS.--Tsala Apopka Lake borders along the west bank of the Withlacoochee River and consists of many lakes and sloughs, some connected and some not.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 41.74 ft Apr. 6, 1960; minimum observed, 30.92 ft July 19, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 39.40 ft May 8; minimum observed, 37.86 ft Sept. 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

MAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.72	38.92	38.94	38.88	38.64	38.74	38.50	38.44	38.46	38.40	38.34	38.12
2	38.74	38.90	38.88	38.88	38.64	38.72	38.46	38.44	38.34	38.38	38.40	38.10
3	38.74	38.90	38.82	38.84	38.68	38.70	38.42	38.42	38.30	38.36	38.42	38.08
4	38.74	38.88	38.78	38.80	38.70	38.70	38.68	38.40	38.24	38.36	38.34	38.06
5	38.74	38.88	38.74	38.76	38.70	38.70	38.72	39.30	38.20	38.34	38.28	38.08
6	38.74	38.88	38.76	38.72	38.70	38.66	38.66	39.36	38.18	38.30	38.24	38.10
7	38.74	38.86	38.78	38.76	38.72	38.68	38.74	39.38	38.16	38.26	38.20	38.08
8	38.74	38.94	38.80	38.76	38.72	38.68	38.72	39.40	38.14	38.20	38.16	38.08
9	38.80	38.94	38.80	38.78	38.72	38.66	38.70	39.32	38.14	38.14	38.12	38.08
10	38.78	38.92	38.82	38.78	38.72	38.64	38.92	39.24	38.12	38.10	38.06	38.06
11	38.78	38.90	38.84	38.78	38.70	38.66	38.90	39.16	38.10	38.08	38.02	38.06
12	38.82	38.90	38.94	38.78	38.70	38.68	38.88	39.02	38.08	38.04	37.98	38.04
13	38.80	38.88	38.96	38.76	38.74	38.70	38.84	38.96	38.10	38.00	37.94	38.04
14	38.96	38.86	38.96	38.76	38.82	38.70	38.82	38.92	38.14	38.02	38.02	38.02
15	38.96	38.86	38.94	38.74	38.76	38.70	38.80	38.82	38.18	38.02	38.02	38.00
16	38.98	38.86	38.94	38.72	38.72	38.68	38.76	38.72	38.20	38.00	38.04	38.00
17	39.00	38.84	38.92	38.70	38.70	38.66	38.70	38.62	38.20	37.98	38.04	37.98
18	39.02	38.82	38.90	38.68	38.68	38.66	38.68	38.52	38.20	37.96	38.04	37.98
19	39.04	38.80	38.88	38.72	38.66	38.64	38.66	38.42	38.20	37.94	38.06	37.98
20	39.02	38.80	38.88	38.76	38.64	38.64	38.66	38.42	38.18	37.98	38.08	37.96
21	39.00	38.98	38.88	38.78	38.66	38.64	38.66	38.40	38.18	38.00	38.16	37.96
22	38.98	38.98	38.86	38.74	38.72	38.64	38.62	38.34	38.18	37.98	38.20	37.94
23	38.96	38.96	38.86	38.70	38.78	38.64	38.58	38.46	38.32	37.98	38.22	37.92
24	38.98	38.98	38.86	38.66	38.78	38.64	38.60	38.50	38.42	37.94	38.18	37.92
25	38.96	38.98	38.84	38.70	38.78	38.64	38.56	38.50	38.40	37.92	38.18	37.88
26	38.96	38.96	38.84	38.70	38.74	38.62	38.52	38.52	38.38	37.92	38.18	37.88
27	38.94	38.96	38.82	38.70	38.70	38.64	38.50	38.54	38.38	38.02	38.16	37.86
28	38.92	38.96	38.82	38.70	38.76	38.62	38.48	38.56	38.38	38.04	38.16	38.04
29	38.90	39.02	38.98	38.68	38.74	38.58	38.48	38.58	38.42	38.10	38.14	38.06
30	38.90	38.98	39.02	38.66	---	38.54	38.46	38.54	38.42	38.12	38.14	38.08
31	38.90	---	39.02	38.64	---	38.54	---	38.52	---	38.28	38.12	---
MEAN	38.88	38.91	38.87	38.74	38.71	38.66	38.66	38.73	38.24	38.10	38.15	38.01
MAX	39.04	39.02	39.02	38.88	38.82	38.74	38.92	39.40	38.46	38.40	38.42	38.12
MIN	38.72	38.80	38.74	38.64	38.64	38.54	38.42	38.34	38.08	37.92	37.94	37.86

CAL YR 1983 MEAN 38.58 MAX 39.14 MIN 37.88
WTR YR 1984 MEAN 38.56 MAX 39.40 MIN 37.86

WITHLACOOCHEE RIVER BASIN

02313229 LAKE ROUSSEAU NEAR DUNNELLON, FL

LOCATION.--Lat 29°00'35", long 82°37'01", in SW¼ sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at west end of lake, at upstream side of control structure of Inglis Dam on Withlacoochee River, 9.8 mi west of Dunnellon.

SURFACE AREA.--4,163 acres (6.50 mi²).

DRAINAGE AREA.--2,020 mi², approximately.

PERIOD OF RECORD.--June 1964 to current year. Records for Withlacoochee River at Inglis Dam, near Dunnellon (station 02313230).

REVISED RECORDS.--WDR FL-72-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 20, 1971, at site in forebay of power house of the old Inglis Dam at same datum. July 20, 1971, to Aug. 23, 1972, at site in private boat basin on south shore of lake at same datum.

REMARKS.--Lake is formed by earthen dam and concrete control structure consisting of two spillway bays with vertical lift gates. Lake was created to produce electric power but is now used for recreation only. Since December 1969, outflow from lake through Inglis Dam (station 02313230), Cross-Florida Barge Canal (station 02313237), and Withlacoochee River Bypass Channel (station 02313250).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 28.18 ft June 19, 1982; minimum daily, 21.70 ft Oct. 11, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 27.88 ft Apr. 5; minimum daily, 26.81 ft Feb. 9.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.41	27.22	27.21	27.13	26.98	27.34	27.49	27.34	27.50	27.68	27.85	27.48
2	27.39	27.19	27.19	27.19	26.99	27.35	27.58	27.32	27.55	27.54	27.78	27.47
3	27.34	27.20	27.15	27.27	26.96	27.37	27.63	27.31	27.52	27.46	27.52	27.45
4	27.30	27.32	27.07	27.34	26.90	27.38	27.84	27.33	27.51	27.42	27.46	27.42
5	27.25	27.43	27.00	27.37	26.86	27.35	27.88	27.74	27.50	27.47	27.42	27.41
6	27.23	27.43	27.01	27.35	26.84	27.30	27.55	27.16	27.47	27.51	27.39	27.41
7	27.26	27.41	27.00	27.32	26.83	27.37	27.27	27.15	27.42	27.51	27.38	27.49
8	27.29	27.45	26.92	27.23	26.83	27.33	27.21	27.37	27.35	27.49	27.35	27.50
9	27.34	27.44	26.85	27.14	26.81	27.27	27.34	27.57	27.33	27.50	27.36	27.46
10	27.40	27.40	26.84	27.07	26.86	27.18	27.46	27.64	27.45	27.50	27.48	27.46
11	27.42	27.26	26.85	27.07	26.93	27.10	27.62	27.61	27.54	27.48	27.60	27.47
12	27.46	27.11	26.98	27.22	26.99	27.05	27.71	27.53	27.56	27.46	27.62	27.48
13	27.49	26.97	27.10	27.16	27.06	26.94	27.68	27.43	27.53	27.47	27.45	27.52
14	27.51	26.89	27.16	27.09	27.12	26.88	27.65	27.43	27.51	27.47	27.37	27.48
15	27.53	26.85	27.24	27.04	27.24	26.93	27.62	27.48	27.48	27.47	27.54	27.40
16	27.50	26.88	27.27	26.99	27.39	26.97	27.60	27.51	27.42	27.44	27.69	27.40
17	27.39	26.96	27.30	26.99	27.50	27.06	27.58	27.50	27.41	27.40	27.72	27.48
18	27.36	27.01	27.31	26.97	27.65	27.11	27.55	27.49	27.44	27.36	27.54	27.51
19	27.36	27.06	27.33	27.09	27.75	27.13	27.52	27.48	27.43	27.37	27.41	27.58
20	27.33	27.12	27.33	27.09	27.76	27.14	27.50	27.53	27.42	27.47	27.40	27.60
21	27.30	27.19	27.32	27.07	27.80	27.19	27.48	27.57	27.43	27.57	27.50	27.57
22	27.28	27.20	27.29	27.05	27.81	27.23	27.46	27.55	27.53	27.65	27.57	27.53
23	27.37	27.20	27.27	27.01	27.65	27.36	27.45	27.55	27.67	27.55	27.62	27.48
24	27.43	27.18	27.24	26.96	27.47	27.52	27.42	27.54	27.68	27.49	27.63	27.46
25	27.36	27.21	27.26	26.95	27.28	27.61	27.40	27.55	27.64	27.48	27.64	27.47
26	27.29	27.20	27.24	26.93	27.13	27.66	27.40	27.58	27.59	27.35	27.56	27.47
27	27.22	27.16	27.23	26.88	27.03	27.64	27.38	27.62	27.49	27.32	27.53	27.50
28	27.20	27.18	27.18	26.92	27.08	27.39	27.36	27.69	27.43	27.41	27.54	27.73
29	27.21	27.24	27.18	26.94	27.20	27.16	27.35	27.70	27.49	27.59	27.54	27.62
30	27.21	27.23	27.20	26.95	---	27.16	27.34	27.54	27.70	27.69	27.51	27.41
31	27.20	---	27.14	26.98	---	27.36	---	27.45	---	27.76	27.49	---
MEAN	27.34	27.19	27.15	27.09	27.20	27.25	27.51	27.49	27.50	27.49	27.53	27.49
MAX	27.53	27.45	27.33	27.37	27.81	27.66	27.88	27.74	27.70	27.76	27.85	27.73
MIN	27.20	26.85	26.84	26.88	26.81	26.88	27.21	27.15	27.33	27.32	27.35	27.40

CAL YR 1983 MEAN 27.40 MAX 27.76 MIN 26.84
WTR YR 1984 MEAN 27.35 MAX 27.88 MIN 26.81

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

284535082054701 LAKE PANASOFFKEE AT I-75 CROSSING

WATER-QUALITY RECORDS

LOCATION.--Lat 28°45'35", long 82°05'47", in SW¼ sec.10, T.20 S., R.22 E., Sumter County, Hydrologic Unit 03100208, samples collected at bridge on Interstate Highway 75, 0.55 mi northeast of intersection with State Highway 470, 0.6 mi northeast town of Lake Panasoffkee.

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
APR 29...	0850	318	7.0	22.0	50	2.5	--	--	59	2.8
SEP 05...	1510	--	7.3	26.0	35	3.6	15	170	59	2.7

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
APR 29...	5.2	.30	6.8	9.8	.20	7.4	203	<.010	<.10	<.010
SEP 05...	4.6	.50	9.2	9.0	.10	8.1	214	<.010	<.10	.260

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
APR 29...	--	.30	.100	.31	.070	<10	1	1	1	290
SEP 05...	.24	.50	.090	--	.100	20	<1	<1	2	340

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
APR 29...	140	2	2	20	6	<.1	8	150	11	8.6
SEP 05...	140	<1	<1	10	13	.1	3	160	41	7.3

WITHLACOOCHEE RIVER BASIN

284753082070401 LAKE PANASOFFKEE NEAR COLEMAN LANDING

WATER-QUALITY RECORDS

LOCATION.--Lat 28°47'53", long 82°07'04", in NE¼ sec.33, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, samples collected from boat, 0.6 mi southwest of Coleman Landing, 2.5 mi west of town of Coleman.

SURFACE AREA.--4,821 acres.

DRAINAGE AREA.--420 mi², approximately.

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ELEVATION ABOVE NGVD (FEET) (72020)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
APR 29...	0920	39.52	260	8.1	26.0	40	9.1	--	--	45	3.0
SEP 05...	1415	39.57	--	7.3	31.5	32	7.5	0	30	41	3.4

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
APR 29...	5.2	.10	13	9.3	.20	5.3	179	<.010	<.10	.580
SEP 05...	4.5	.30	11	8.6	.20	12	181	<.010	<.10	.030

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL (MG/L AS PO4) (71886)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
APR 29...	.12	.70	.040	.12	.030	<10	1	1	<1	130
SEP 05...	.57	.60	.010	--	.020	--	--	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
APR 29...	24	<1	1	20	1	<.1	5	220	4	9.8
SEP 05...	--	--	--	--	--	--	--	230	--	9.9

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1983 TO SEPTEMBER 1984

PHYTOPLANKTON ANALYSES

02307295 - ISLAND FORD LAKE NR ODESSA, FLA.

DATE	TIME	CHLORO PHYCEAE (96001)	CHLAMY DOMONAS (96014)	SCHROE DERIA (96190)	ANKIS TRODES MUS (96202)	DICTYO SPHAE RIUM (96209)	TETRAE DRON (96226)	CRUCI GENIA (96240)	GOLEN KINIA (96252)	STAURA STRUM (96327)	PHACUS (96390)
APR 26...	1310	610	--	87	--	11	--	87	260	3	22
SEP 26...	1300	2500	130	--	130	--	260	520	260	780	--

DATE	CRYPTO PHYCEAE (96423)	DINO BRYON (96677)	MELO SIRA (96707)	FRAGILA RIA (96764)	NITZ SCHIA (97952)	DACTYLO COCCOP SIS (98067)	A. CYANEA (98085)	LYNGBYA (98131)	OSCIL LATORIA (98136)	ANA BAENA (98199)
APR 26...	260	87	--	--	87	--	28000	--	3200	--
SEP 26...	780	130	4100	130	390	3900	14000	5700	200	130

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons